Observation of Complex Time Structures in the Cosmic-Ray Electron and Positron Fluxes with the Alpha Magnetic Spectrometer on the International Space Station – SUPPLEMENTAL MATERIAL –

(AMS Collaboration)

For all references see main text.

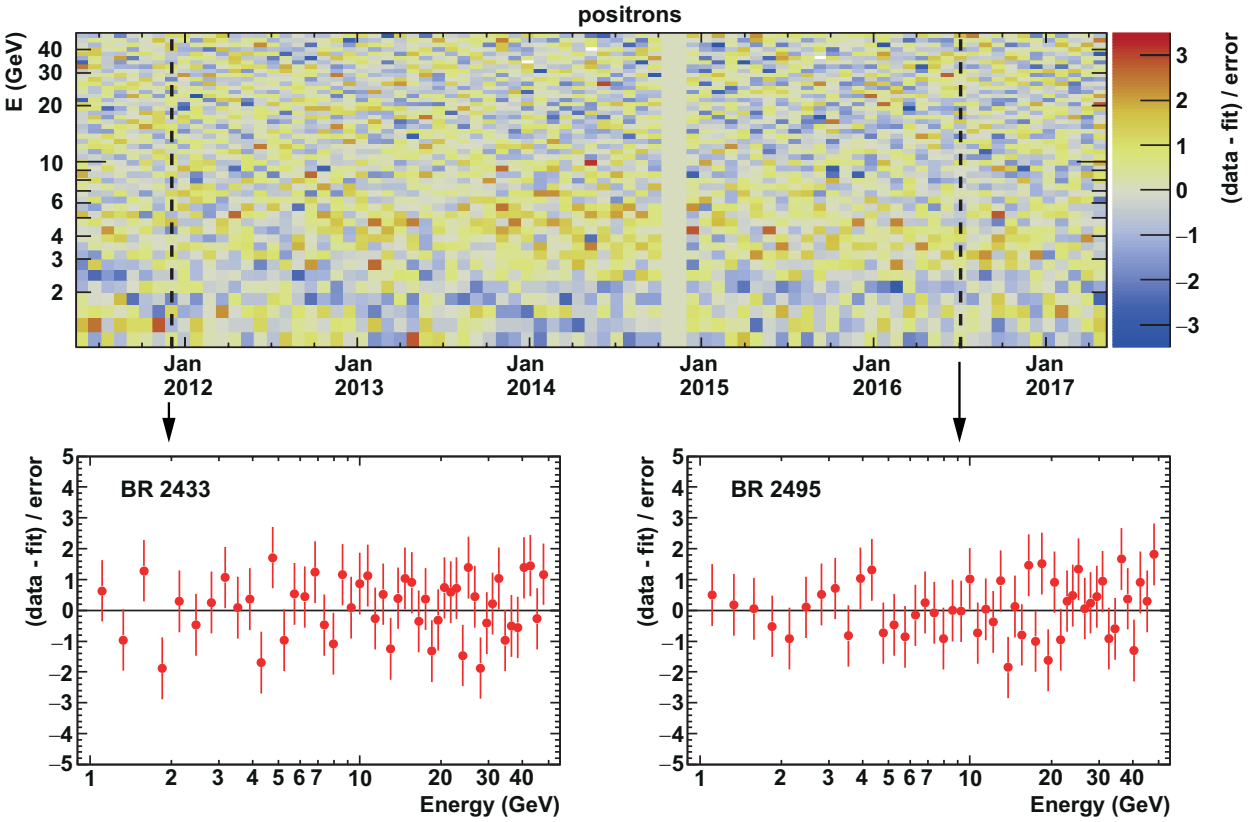

FIG. SM 1. For the positron flux, the difference between data and model [36] fits normalized to the experimental uncertainties: (upper) for each Bartels Rotation as a function of energy. The distribution for the positrons reveals no visible structures, emphasized for (lower left) Bartels Rotation 2433 and (lower right) Bartels Rotation 2495. The times for these two Bartels Rotations are indicated by the vertical dashed lines in the upper graph.

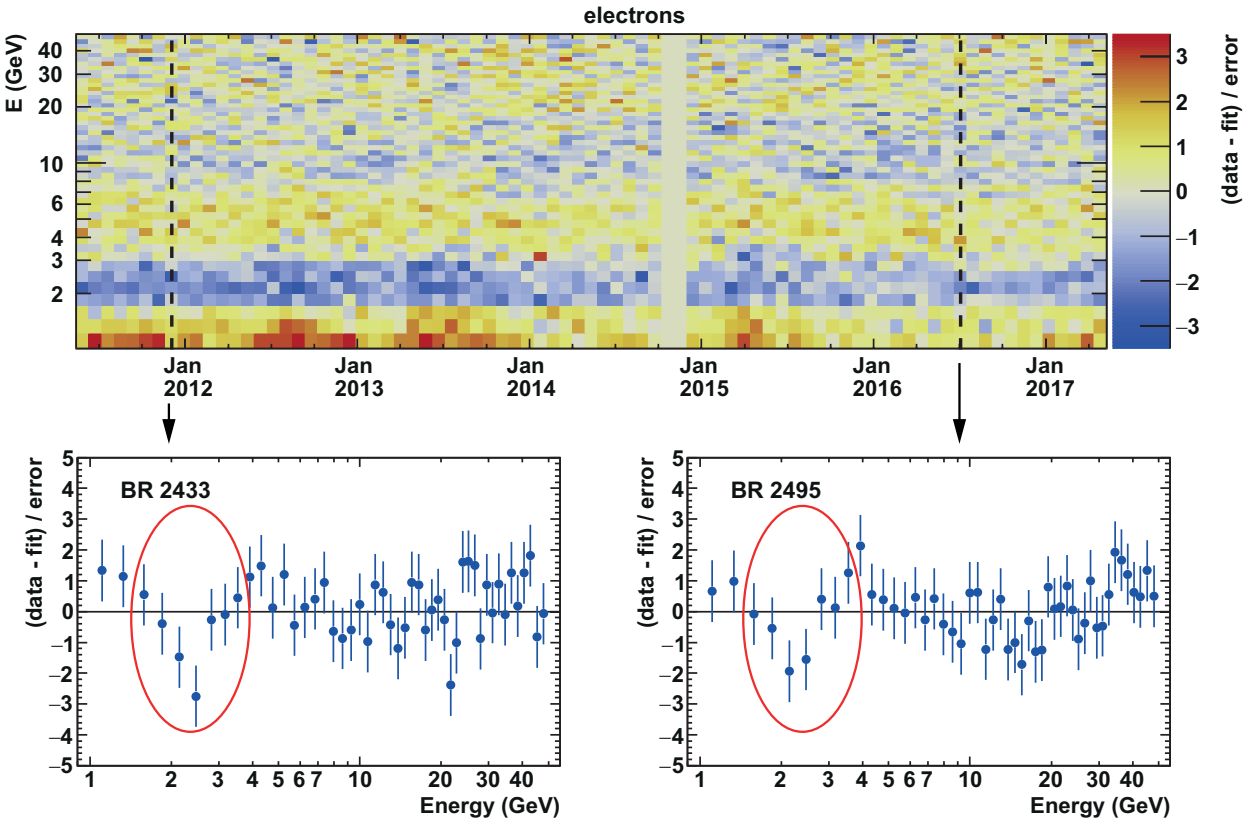

FIG. SM 2. For the electron flux, the difference between data and model [36] fits normalized to the experimental uncertainties: (upper) for each Bartels Rotation as a function of energy. The distribution for the electrons reveals a model-dependent structure stable in time in the energy range between 2 GeV and 3 GeV, emphasized for (lower left) Bartels Rotation 2433 and (lower right) Bartels Rotation 2495. The times for these two Bartels Rotations are indicated by the vertical dashed lines in the upper graph.

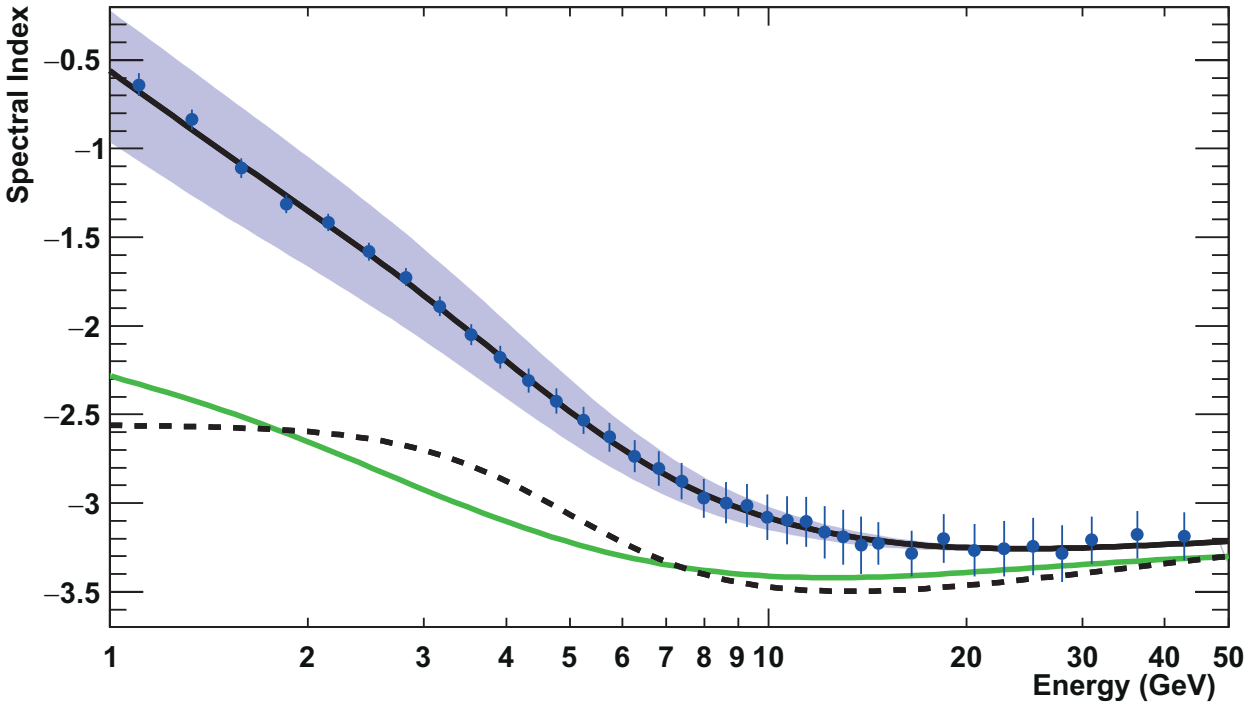

FIG. SM 3. Energy dependence of the electron spectral index $\gamma_{e^-} = \mathrm{d}(\log \Phi_{e^-})/\mathrm{d}(\log E)$ obtained in a model independent way [32] from the time averaged data in Table SM 1 (blue circles) and the spectral index obtained from the model described in [36, 37] fitted to the time-averaged electron flux data (solid black curve). As in Fig. 1, the shaded band indicates the time-variation. The spectral index from this model without solar modulation (dashed black curve) clearly shows a break in the spectral index between 2 GeV and 10 GeV. A recent model describing the local interstellar electron spectrum [39] is also shown (green curve).

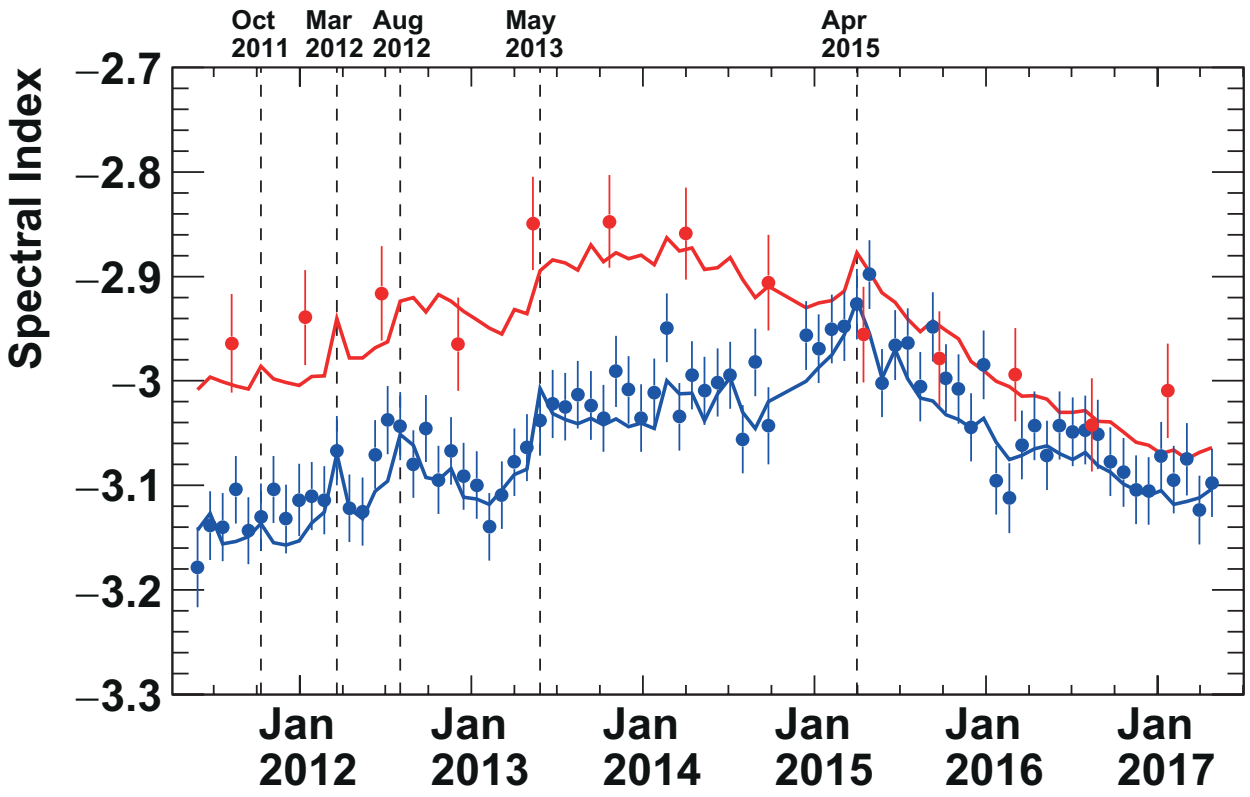

FIG. SM 4. Time evolution of the spectral indices $\gamma_{e^\pm} = \mathrm{d}(\log \Phi_{e^\pm})/\mathrm{d}(\log E)$ at E=10 GeV, determined in a model-independent way as described in [32], using data in the energy range 7.1–13.41 GeV, for both the electron flux (blue circles) and the positron flux (red circles). For comparison, the spectral indices calculated from the independent fits of the energy spectra in each Bartels Rotation using the model described in Ref. [36] are shown for electrons (blue line) and positrons (red line). The prominent and distinct short-term structures discussed in the text are marked by dashed vertical lines.

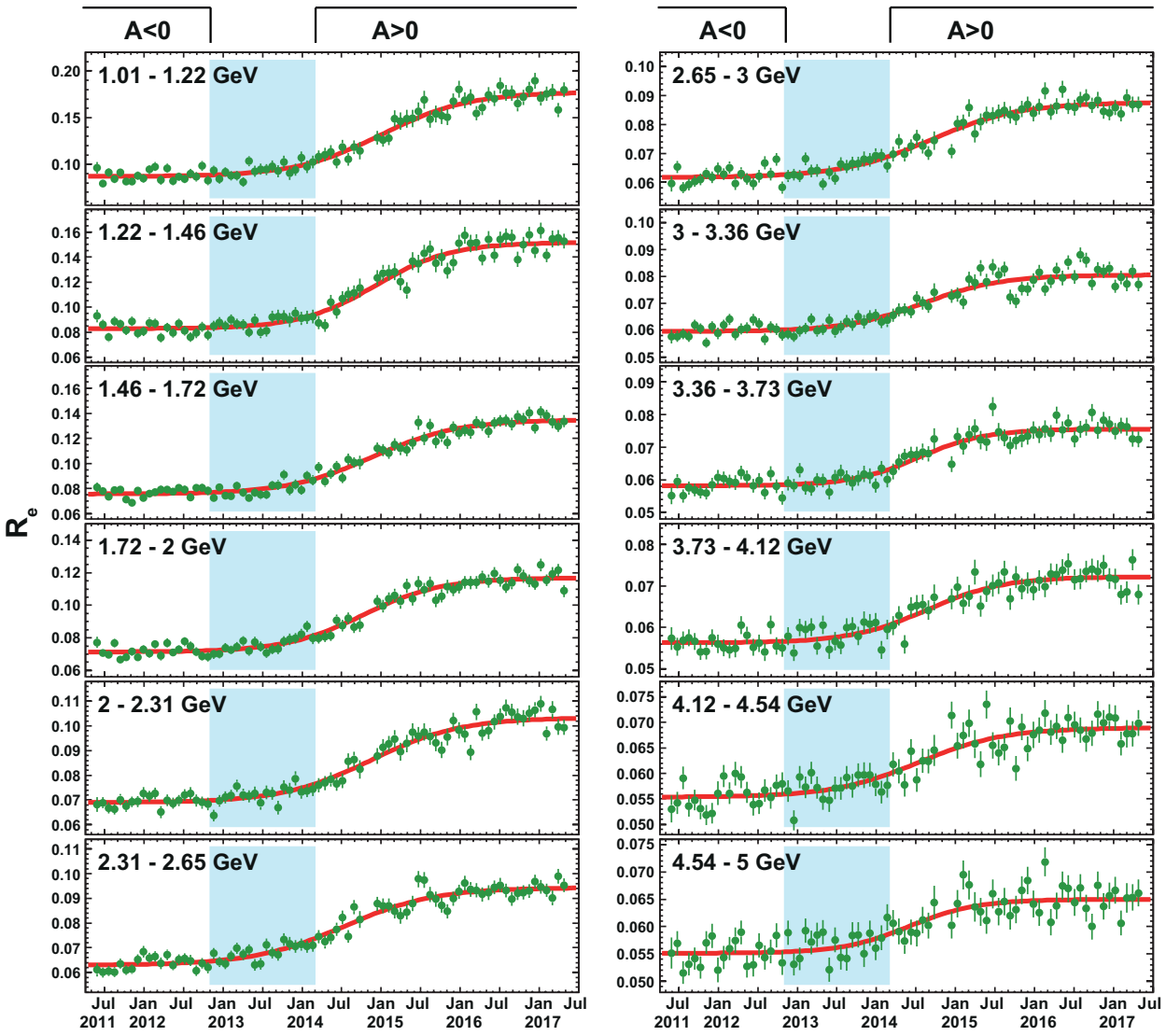

FIG. SM 5. The positron to electron flux ratio R_e as a function of time (green dots) and the best-fit parameterizations according to Eq. (3) (red curves) for different energies. The error bars are statistical. The polarity of the heliospheric magnetic field is denoted by $A < 0$ and $A > 0$. The period without well-defined polarity is marked by the shaded area [17].

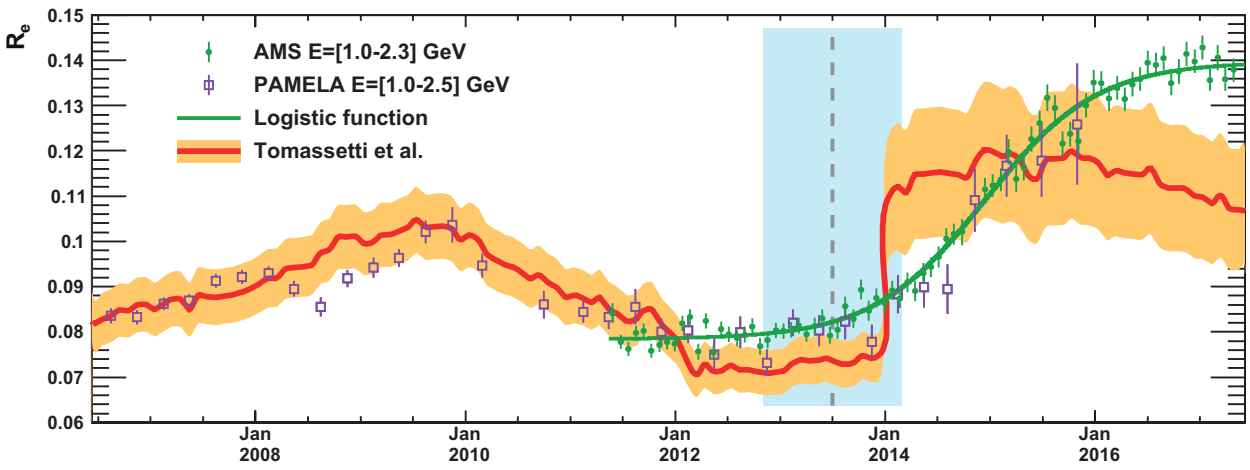

FIG. SM 6. The ratio R_e of the positron flux to the electron flux as a function of time as measured by AMS (green) and PAMELA (magenta), together with a fit of the logistic function defined in Eq. (3). PAMELA published only the relative variation of R_e but not the absolute value. Therefore for comparison the PAMELA data points have been normalized to the AMS data in 2012. As example, a numerical solar modulation model (red) for galactic cosmic-ray electrons and positrons describing the time evolution of R_e [22] is also shown. The time period without well-defined polarity is marked by the shaded area [17].

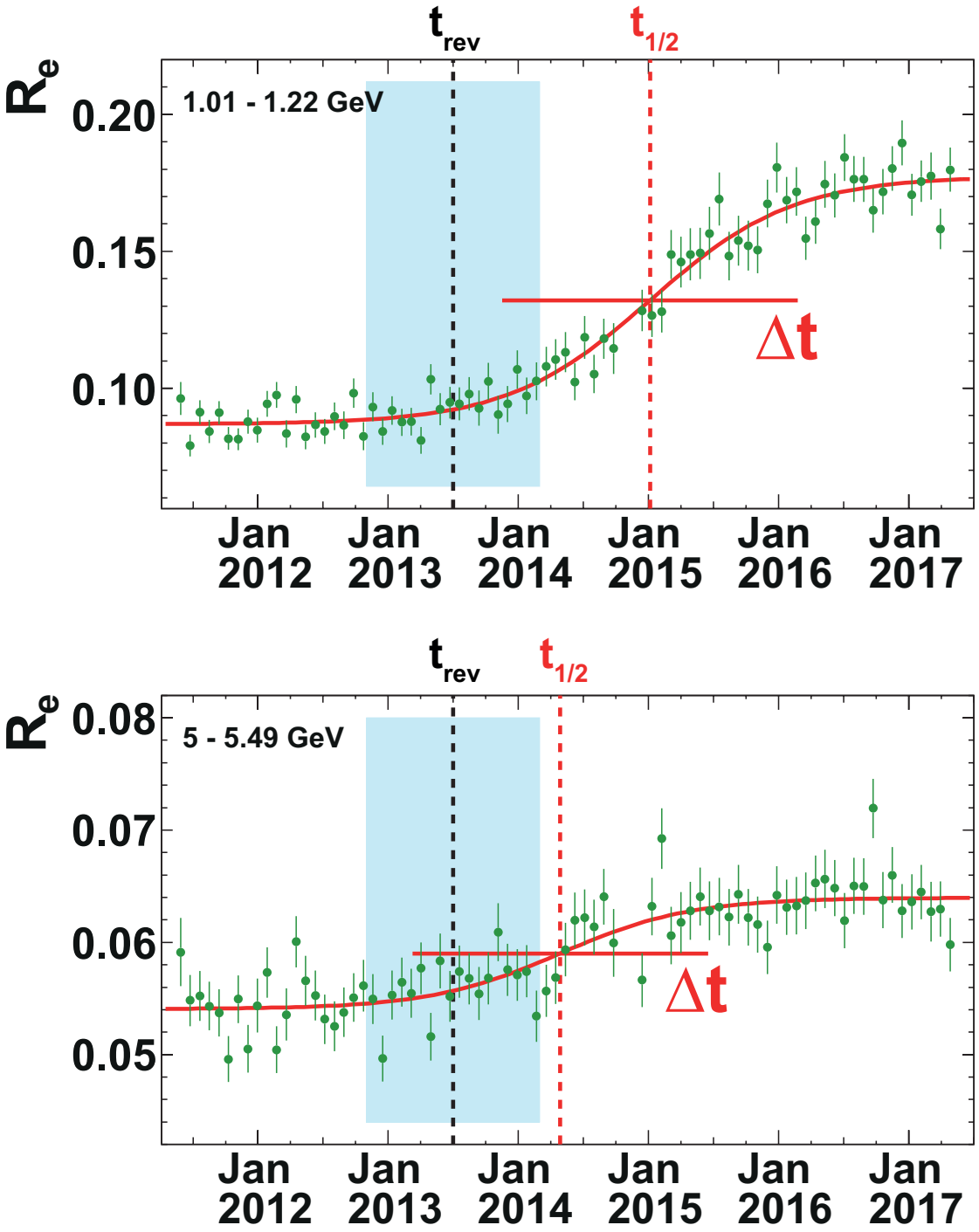

FIG. SM 7. Illustration of the parameters in Eqs. (3) and (4) describing the time and energy dependence of R_e, using two energy bins from Fig. 3 as examples. The best-fit parameterizations according to Eq. (3) are shown by red curves. The period without well-defined polarity is marked by the shaded area [17]. Our choice for the effective time of the reversal of the solar magnetic field $t_{\rm rev}$ is marked by black dashed vertical lines. The fit results for the midpoint of the transition $t_{1/2}$ are marked by red dashed vertical lines. The value of $t_{1/2}$ is found to be energy dependent. The width of the red horizontal bars indicate the duration of the transition Δt, which is found to be independent of energy at 830 ± 30 days. It takes time Δt for the transition to proceed from 10% to 90% of the change in magnitude.

TABLE SM I: Time-averaged (May 20, 2011 – May 11, 2017) electron flux Φ_{e^-}, positron flux Φ_{e^+}, and flux ratio R_e, vs energy (in GeV) at the top of AMS, and their respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
0.50 – 0.65	(2.0579 0.0270 0.1100)$\times10^{1}$	(3.117 0.120 0.190)$\times10^{0}$	(1.468 0.061 0.020)$\times10^{-1}$
0.65 – 0.82	(1.9519 0.0068 0.0530)$\times10^{1}$	(2.801 0.028 0.087)$\times10^{0}$	(1.399 0.016 0.017)$\times10^{-1}$
0.82 – 1.01	(1.7403 0.0041 0.0360)$\times10^{1}$	(2.292 0.016 0.052)$\times10^{0}$	(1.302 0.010 0.015)$\times10^{-1}$
1.01 – 1.22	(1.5678 0.0029 0.0270)$\times10^{1}$	(1.848 0.010 0.033)$\times10^{0}$	(1.175 0.007 0.013)$\times10^{-1}$
1.22 – 1.46	(1.3678 0.0021 0.0200)$\times10^{1}$	(1.474 0.007 0.023)$\times10^{0}$	(1.074 0.006 0.012)$\times10^{-1}$
1.46 – 1.72	(1.1668 0.0015 0.0150)$\times10^{1}$	(1.135 0.005 0.016)$\times10^{0}$	(9.706 0.044 0.100)$\times10^{-2}$
1.72 – 2.00	(9.5279 0.0100 0.1100)$\times10^{0}$	(8.442 0.032 0.110)$\times10^{-1}$	(8.886 0.037 0.091)$\times10^{-2}$
2.00 – 2.31	(7.8257 0.0077 0.0780)$\times10^{0}$	(6.388 0.023 0.085)$\times10^{-1}$	(8.200 0.032 0.082)$\times10^{-2}$
2.31 – 2.65	(6.3432 0.0058 0.0580)$\times10^{0}$	(4.824 0.017 0.065)$\times10^{-1}$	(7.656 0.029 0.073)$\times10^{-2}$
2.65 – 3.00	(5.0971 0.0046 0.0450)$\times10^{0}$	(3.668 0.013 0.051)$\times10^{-1}$	(7.248 0.027 0.066)$\times10^{-2}$
3.00 – 3.36	(4.1236 0.0037 0.0370)$\times10^{0}$	(2.808 0.010 0.041)$\times10^{-1}$	(6.864 0.027 0.059)$\times10^{-2}$
3.36 – 3.73	(3.3133 0.0031 0.0300)$\times10^{0}$	(2.167 0.008 0.033)$\times10^{-1}$	(6.586 0.027 0.053)$\times10^{-2}$
3.73 – 4.12	(2.6758 0.0025 0.0240)$\times10^{0}$	(1.674 0.007 0.027)$\times10^{-1}$	(6.313 0.027 0.047)$\times10^{-2}$
4.12 – 4.54	(2.1418 0.0020 0.0200)$\times10^{0}$	(1.307 0.005 0.021)$\times10^{-1}$	(6.152 0.026 0.043)$\times10^{-2}$
4.54 – 5.00	(1.7056 0.0016 0.0160)$\times10^{0}$	(1.011 0.004 0.017)$\times10^{-1}$	(5.983 0.026 0.038)$\times10^{-2}$
5.00 – 5.49	(1.3449 0.0013 0.0130)$\times10^{0}$	(7.871 0.033 0.140)$\times10^{-2}$	(5.896 0.027 0.033)$\times10^{-2}$
5.49 – 6.00	(1.0637 0.0011 0.0110)$\times10^{0}$	(6.062 0.027 0.110)$\times10^{-2}$	(5.763 0.027 0.029)$\times10^{-2}$
6.00 – 6.54	(8.4049 0.0087 0.0910)$\times10^{-1}$	(4.719 0.022 0.086)$\times10^{-2}$	(5.689 0.028 0.025)$\times10^{-2}$
6.54 – 7.10	(6.6484 0.0072 0.0750)$\times10^{-1}$	(3.732 0.018 0.070)$\times10^{-2}$	(5.684 0.029 0.022)$\times10^{-2}$
7.10 – 7.69	(5.2882 0.0060 0.0610)$\times10^{-1}$	(2.945 0.015 0.056)$\times10^{-2}$	(5.618 0.031 0.020)$\times10^{-2}$
7.69 – 8.30	(4.2060 0.0051 0.0500)$\times10^{-1}$	(2.338 0.013 0.046)$\times10^{-2}$	(5.625 0.033 0.019)$\times10^{-2}$
8.30 – 8.95	(3.3459 0.0043 0.0410)$\times10^{-1}$	(1.867 0.011 0.037)$\times10^{-2}$	(5.610 0.034 0.019)$\times10^{-2}$
8.95 – 9.62	(2.6853 0.0037 0.0330)$\times10^{-1}$	(1.505 0.009 0.031)$\times10^{-2}$	(5.661 0.037 0.019)$\times10^{-2}$
9.62 – 10.32	(2.1609 0.0031 0.0270)$\times10^{-1}$	(1.239 0.008 0.026)$\times10^{-2}$	(5.783 0.040 0.019)$\times10^{-2}$
10.32 – 11.04	(1.7441 0.0027 0.0220)$\times10^{-1}$	(9.913 0.067 0.210)$\times10^{-3}$	(5.730 0.042 0.019)$\times10^{-2}$
11.04 – 11.80	(1.4189 0.0023 0.0190)$\times10^{-1}$	(8.235 0.059 0.180)$\times10^{-3}$	(5.814 0.045 0.019)$\times10^{-2}$
11.80 – 12.59	(1.1551 0.0020 0.0150)$\times10^{-1}$	(6.799 0.051 0.150)$\times10^{-3}$	(5.914 0.049 0.019)$\times10^{-2}$
12.59 – 13.41	(9.4132 0.0180 0.1300)$\times10^{-2}$	(5.550 0.045 0.130)$\times10^{-3}$	(5.928 0.052 0.019)$\times10^{-2}$
13.41 – 14.25	(7.7281 0.0160 0.1100)$\times10^{-2}$	(4.571 0.039 0.110)$\times10^{-3}$	(5.912 0.056 0.019)$\times10^{-2}$
14.25 – 15.14	(6.3285 0.0130 0.0870)$\times10^{-2}$	(3.840 0.034 0.092)$\times10^{-3}$	(6.097 0.060 0.020)$\times10^{-2}$
15.14 – 16.05	(5.2381 0.0120 0.0730)$\times10^{-2}$	(3.211 0.031 0.078)$\times10^{-3}$	(6.121 0.064 0.020)$\times10^{-2}$
16.05 – 17.00	(4.3388 0.0100 0.0610)$\times10^{-2}$	(2.664 0.027 0.066)$\times10^{-3}$	(6.166 0.068 0.020)$\times10^{-2}$
17.00 – 17.98	(3.6044 0.0092 0.0520)$\times10^{-2}$	(2.286 0.024 0.057)$\times10^{-3}$	(6.410 0.074 0.021)$\times10^{-2}$
17.98 – 18.99	(2.9923 0.0081 0.0430)$\times10^{-2}$	(1.920 0.021 0.048)$\times10^{-3}$	(6.494 0.079 0.022)$\times10^{-2}$
18.99 – 20.04	(2.5372 0.0072 0.0370)$\times10^{-2}$	(1.662 0.019 0.042)$\times10^{-3}$	(6.616 0.084 0.022)$\times10^{-2}$
20.04 – 21.13	(2.1211 0.0064 0.0310)$\times10^{-2}$	(1.425 0.017 0.036)$\times10^{-3}$	(6.765 0.090 0.023)$\times10^{-2}$
21.13 – 22.25	(1.7927 0.0057 0.0270)$\times10^{-2}$	(1.178 0.015 0.030)$\times10^{-3}$	(6.685 0.094 0.023)$\times10^{-2}$

Continued on next page

TABLE SM I – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
22.25 – 23.42	$(1.5148\ 0.0050\ 0.0230)\times10^{-2}$	$(1.052\ 0.014\ 0.027)\times10^{-3}$	$(7.005\ 0.100\ 0.024)\times10^{-2}$
23.42 – 24.62	$(1.2848\ 0.0045\ 0.0190)\times10^{-2}$	$(8.810\ 0.120\ 0.230)\times10^{-4}$	$(6.978\ 0.110\ 0.024)\times10^{-2}$
24.62 – 25.90	$(1.0915\ 0.0039\ 0.0170)\times10^{-2}$	$(7.730\ 0.110\ 0.200)\times10^{-4}$	$(7.162\ 0.110\ 0.025)\times10^{-2}$
25.90 – 27.25	$(9.2394\ 0.0350\ 0.1400)\times10^{-3}$	$(6.813\ 0.097\ 0.180)\times10^{-4}$	$(7.383\ 0.120\ 0.025)\times10^{-2}$
27.25 – 28.68	$(7.8612\ 0.0310\ 0.1200)\times10^{-3}$	$(5.767\ 0.086\ 0.150)\times10^{-4}$	$(7.320\ 0.120\ 0.025)\times10^{-2}$
28.68 – 30.21	$(6.6023\ 0.0270\ 0.1000)\times10^{-3}$	$(5.106\ 0.078\ 0.130)\times10^{-4}$	$(7.927\ 0.130\ 0.028)\times10^{-2}$
30.21 – 31.82	$(5.5903\ 0.0240\ 0.0890)\times10^{-3}$	$(4.318\ 0.069\ 0.110)\times10^{-4}$	$(7.703\ 0.140\ 0.027)\times10^{-2}$
31.82 – 33.53	$(4.7272\ 0.0210\ 0.0760)\times10^{-3}$	$(3.668\ 0.061\ 0.094)\times10^{-4}$	$(7.758\ 0.140\ 0.028)\times10^{-2}$
33.53 – 35.36	$(3.9920\ 0.0190\ 0.0650)\times10^{-3}$	$(3.139\ 0.055\ 0.081)\times10^{-4}$	$(7.943\ 0.150\ 0.029)\times10^{-2}$
35.36 – 37.31	$(3.3630\ 0.0170\ 0.0550)\times10^{-3}$	$(2.759\ 0.050\ 0.071)\times10^{-4}$	$(8.217\ 0.170\ 0.030)\times10^{-2}$
37.31 – 39.39	$(2.8167\ 0.0150\ 0.0470)\times10^{-3}$	$(2.413\ 0.045\ 0.062)\times10^{-4}$	$(8.548\ 0.180\ 0.032)\times10^{-2}$
39.39 – 41.61	$(2.4046\ 0.0130\ 0.0400)\times10^{-3}$	$(1.983\ 0.040\ 0.051)\times10^{-4}$	$(8.399\ 0.190\ 0.032)\times10^{-2}$
41.61 – 44.00	$(1.9826\ 0.0120\ 0.0330)\times10^{-3}$	$(1.719\ 0.036\ 0.044)\times10^{-4}$	$(8.678\ 0.200\ 0.034)\times10^{-2}$
44.00 – 46.57	$(1.6460\ 0.0100\ 0.0280)\times10^{-3}$	$(1.492\ 0.032\ 0.038)\times10^{-4}$	$(9.160\ 0.220\ 0.037)\times10^{-2}$
46.57 – 49.33	$(1.4020\ 0.0092\ 0.0240)\times10^{-3}$	$(1.306\ 0.029\ 0.034)\times10^{-4}$	$(9.368\ 0.230\ 0.039)\times10^{-2}$

TABLE SM II: For Bartels Rotation 2426 (May 15, 2011 – June 10, 2011), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. Days from May 15 to May 19, 2011 are not included because AMS data taking started on May 20, 2011. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	$(2.696\ 0.046\ 0.046)\times10^{1}$	$(2.611\ 0.150\ 0.047)\times10^{0}$	$(9.625\ 0.610\ 0.110)\times10^{-2}$
1.22 – 1.46	$(2.245\ 0.033\ 0.033)\times10^{1}$	$(2.066\ 0.100\ 0.032)\times10^{0}$	$(9.287\ 0.500\ 0.100)\times10^{-2}$
1.46 – 1.72	$(1.822\ 0.022\ 0.023)\times10^{1}$	$(1.433\ 0.065\ 0.020)\times10^{0}$	$(8.108\ 0.390\ 0.086)\times10^{-2}$
1.72 – 2.00	$(1.400\ 0.015\ 0.016)\times10^{1}$	$(1.063\ 0.044\ 0.014)\times10^{0}$	$(7.727\ 0.350\ 0.079)\times10^{-2}$
2.00 – 2.31	$(1.081\ 0.011\ 0.011)\times10^{1}$	$(7.329\ 0.290\ 0.097)\times10^{-1}$	$(6.812\ 0.300\ 0.068)\times10^{-2}$
2.31 – 2.65	$(8.568\ 0.081\ 0.078)\times10^{0}$	$(5.323\ 0.210\ 0.071)\times10^{-1}$	$(6.101\ 0.270\ 0.058)\times10^{-2}$
2.65 – 3.00	$(6.601\ 0.063\ 0.058)\times10^{0}$	$(3.807\ 0.160\ 0.053)\times10^{-1}$	$(5.947\ 0.260\ 0.054)\times10^{-2}$
3.00 – 3.36	$(5.216\ 0.050\ 0.046)\times10^{0}$	$(2.925\ 0.130\ 0.043)\times10^{-1}$	$(5.764\ 0.260\ 0.050)\times10^{-2}$
3.36 – 3.73	$(4.013\ 0.040\ 0.036)\times10^{0}$	$(2.241\ 0.100\ 0.034)\times10^{-1}$	$(5.506\ 0.270\ 0.045)\times10^{-2}$
3.73 – 4.12	$(3.213\ 0.033\ 0.029)\times10^{0}$	$(1.780\ 0.081\ 0.028)\times10^{-1}$	$(5.733\ 0.270\ 0.043)\times10^{-2}$
4.12 – 4.54	$(2.562\ 0.026\ 0.024)\times10^{0}$	$(1.358\ 0.064\ 0.022)\times10^{-1}$	$(5.300\ 0.270\ 0.037)\times10^{-2}$
4.54 – 5.00	$(1.925\ 0.021\ 0.018)\times10^{0}$	$(1.066\ 0.051\ 0.018)\times10^{-1}$	$(5.513\ 0.280\ 0.035)\times10^{-2}$
5.00 – 5.49	$(1.519\ 0.017\ 0.015)\times10^{0}$	$(8.801\ 0.420\ 0.150)\times10^{-2}$	$(5.914\ 0.300\ 0.034)\times10^{-2}$
5.49 – 6.00	$(1.174\ 0.013\ 0.012)\times10^{0}$	$(5.944\ 0.320\ 0.110)\times10^{-2}$	$(4.966\ 0.290\ 0.025)\times10^{-2}$
6.00 – 6.54	$(9.269\ 0.110\ 0.100)\times10^{-1}$	$(4.714\ 0.260\ 0.086)\times10^{-2}$	$(5.234\ 0.300\ 0.023)\times10^{-2}$
6.54 – 7.10	$(7.116\ 0.089\ 0.080)\times10^{-1}$	$(3.746\ 0.210\ 0.070)\times10^{-2}$	$(5.562\ 0.340\ 0.021)\times10^{-2}$
7.10 – 7.69	$(5.624\ 0.074\ 0.065)\times10^{-1}$	$(3.061\ 0.180\ 0.058)\times10^{-2}$	$(5.636\ 0.350\ 0.020)\times10^{-2}$
7.69 – 8.30	$(4.490\ 0.062\ 0.053)\times10^{-1}$	$(2.399\ 0.150\ 0.047)\times10^{-2}$	$(5.591\ 0.370\ 0.019)\times10^{-2}$
8.30 – 8.95	$(3.513\ 0.052\ 0.042)\times10^{-1}$	$(2.142\ 0.130\ 0.043)\times10^{-2}$	$(6.318\ 0.420\ 0.021)\times10^{-2}$
8.95 – 9.62	$(2.780\ 0.044\ 0.034)\times10^{-1}$	$(1.584\ 0.110\ 0.033)\times10^{-2}$	$(5.954\ 0.440\ 0.020)\times10^{-2}$
9.62 – 10.32	$(2.292\ 0.038\ 0.029)\times10^{-1}$	$(1.292\ 0.096\ 0.027)\times10^{-2}$	$(6.358\ 0.480\ 0.021)\times10^{-2}$
10.32 – 11.04	$(1.730\ 0.032\ 0.022)\times10^{-1}$	$(9.463\ 0.780\ 0.200)\times10^{-3}$	$(6.060\ 0.520\ 0.020)\times10^{-2}$
11.04 – 11.80	$(1.444\ 0.028\ 0.019)\times10^{-1}$	$(7.881\ 0.680\ 0.170)\times10^{-3}$	$(5.445\ 0.510\ 0.018)\times10^{-2}$
11.80 – 12.59	$(1.142\ 0.024\ 0.015)\times10^{-1}$	$(6.861\ 0.600\ 0.160)\times10^{-3}$	$(5.913\ 0.580\ 0.019)\times10^{-2}$
12.59 – 13.41	$(9.489\ 0.210\ 0.130)\times10^{-2}$	$(5.111\ 0.510\ 0.120)\times10^{-3}$	$(5.343\ 0.580\ 0.017)\times10^{-2}$
13.41 – 14.25	$(7.844\ 0.180\ 0.110)\times10^{-2}$	$(4.629\ 0.460\ 0.110)\times10^{-3}$	$(5.723\ 0.640\ 0.018)\times10^{-2}$
14.25 – 15.14	$(6.237\ 0.160\ 0.086)\times10^{-2}$	$(3.590\ 0.390\ 0.086)\times10^{-3}$	$(5.950\ 0.700\ 0.019)\times10^{-2}$
15.14 – 16.05	$(5.195\ 0.140\ 0.072)\times10^{-2}$	$(2.909\ 0.340\ 0.071)\times10^{-3}$	$(5.458\ 0.700\ 0.018)\times10^{-2}$
16.05 – 17.00	$(4.389\ 0.120\ 0.062)\times10^{-2}$	$(2.569\ 0.310\ 0.063)\times10^{-3}$	$(5.415\ 0.750\ 0.018)\times10^{-2}$
17.00 – 17.98	$(3.751\ 0.110\ 0.054)\times10^{-2}$	$(2.137\ 0.270\ 0.053)\times10^{-3}$	$(5.882\ 0.820\ 0.019)\times10^{-2}$
17.98 – 18.99	$(3.100\ 0.097\ 0.045)\times10^{-2}$	$(1.821\ 0.240\ 0.046)\times10^{-3}$	$(5.460\ 0.830\ 0.018)\times10^{-2}$
18.99 – 20.04	$(2.473\ 0.083\ 0.036)\times10^{-2}$	$(1.847\ 0.240\ 0.047)\times10^{-3}$	$(7.828\ 1.100\ 0.026)\times10^{-2}$
20.04 – 21.13	$(2.112\ 0.074\ 0.031)\times10^{-2}$	$(1.638\ 0.210\ 0.042)\times10^{-3}$	$(8.234\ 1.200\ 0.028)\times10^{-2}$
21.13 – 22.25	$(1.873\ 0.068\ 0.028)\times10^{-2}$	$(7.973\ 1.500\ 0.200)\times10^{-4}$	$(4.717\ 0.890\ 0.016)\times10^{-2}$
22.25 – 23.42	$(1.582\ 0.060\ 0.024)\times10^{-2}$	$(9.681\ 1.500\ 0.250)\times10^{-4}$	$(6.089\ 1.100\ 0.021)\times10^{-2}$
23.42 – 24.62	$(1.305\ 0.053\ 0.020)\times10^{-2}$	$(9.100\ 1.400\ 0.230)\times10^{-4}$	$(7.439\ 1.300\ 0.025)\times10^{-2}$

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TABLE SM II – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
24.62 – 25.90	$(1.112\ 0.046\ 0.017)\times10^{-2}$	$(8.184\ 1.300\ 0.210)\times10^{-4}$	$(7.662\ 1.300\ 0.026)\times10^{-2}$
25.90 – 27.25	$(9.275\ 0.400\ 0.140)\times10^{-3}$	$(7.450\ 1.200\ 0.190)\times10^{-4}$	$(8.839\ 1.500\ 0.030)\times10^{-2}$
27.25 – 28.68	$(7.889\ 0.350\ 0.120)\times10^{-3}$	$(5.789\ 1.000\ 0.150)\times10^{-4}$	$(7.677\ 1.400\ 0.026)\times10^{-2}$
28.68 – 30.21	$(6.308\ 0.300\ 0.099)\times10^{-3}$	$(4.681\ 0.850\ 0.120)\times10^{-4}$	$(7.996\ 1.600\ 0.028)\times10^{-2}$
30.21 – 31.82	$(5.521\ 0.270\ 0.087)\times10^{-3}$	$(3.715\ 0.740\ 0.095)\times10^{-4}$	$(7.125\ 1.500\ 0.025)\times10^{-2}$
31.82 – 33.53	$(4.667\ 0.240\ 0.075)\times10^{-3}$	$(5.826\ 0.880\ 0.150)\times10^{-4}$	$(10.29\ 1.900\ 0.036)\times10^{-2}$
33.53 – 35.36	$(3.995\ 0.210\ 0.065)\times10^{-3}$	$(1.844\ 0.480\ 0.047)\times10^{-4}$	$(5.096\ 1.400\ 0.018)\times10^{-2}$
35.36 – 37.31	$(3.206\ 0.190\ 0.052)\times10^{-3}$	$(2.069\ 0.500\ 0.053)\times10^{-4}$	$(7.250\ 1.800\ 0.027)\times10^{-2}$
37.31 – 39.39	$(2.693\ 0.160\ 0.045)\times10^{-3}$	$(3.175\ 0.590\ 0.081)\times10^{-4}$	$(11.51\ 2.400\ 0.043)\times10^{-2}$
39.39 – 41.61	$(2.545\ 0.160\ 0.042)\times10^{-3}$	$(2.181\ 0.490\ 0.056)\times10^{-4}$	$(7.835\ 2.000\ 0.030)\times10^{-2}$
41.61 – 44.00	$(1.891\ 0.130\ 0.032)\times10^{-3}$	$(1.645\ 0.410\ 0.042)\times10^{-4}$	$(8.298\ 2.400\ 0.033)\times10^{-2}$
44.00 – 46.57	$(1.447\ 0.110\ 0.025)\times10^{-3}$	$(1.331\ 0.340\ 0.034)\times10^{-4}$	$(8.013\ 2.400\ 0.033)\times10^{-2}$
46.57 – 49.33	$(1.393\ 0.100\ 0.024)\times10^{-3}$	$(1.003\ 0.280\ 0.026)\times10^{-4}$	$(5.297\ 2.000\ 0.022)\times10^{-2}$

TABLE SM III: For Bartels Rotation 2427 (June 11, 2011 – July 07, 2011), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	$(2.768\ 0.035\ 0.047)\times10^{1}$	$(2.123\ 0.100\ 0.038)\times10^{0}$	$(7.905\ 0.400\ 0.089)\times10^{-2}$
1.22 – 1.46	$(2.200\ 0.024\ 0.032)\times10^{1}$	$(1.952\ 0.075\ 0.030)\times10^{0}$	$(8.618\ 0.360\ 0.095)\times10^{-2}$
1.46 – 1.72	$(1.730\ 0.016\ 0.022)\times10^{1}$	$(1.364\ 0.047\ 0.019)\times10^{0}$	$(7.820\ 0.290\ 0.083)\times10^{-2}$
1.72 – 2.00	$(1.375\ 0.011\ 0.015)\times10^{1}$	$(9.817\ 0.310\ 0.130)\times10^{-1}$	$(7.081\ 0.250\ 0.073)\times10^{-2}$
2.00 – 2.31	$(1.074\ 0.008\ 0.011)\times10^{1}$	$(7.304\ 0.220\ 0.097)\times10^{-1}$	$(6.883\ 0.220\ 0.069)\times10^{-2}$
2.31 – 2.65	$(8.369\ 0.061\ 0.076)\times10^{0}$	$(4.987\ 0.150\ 0.067)\times10^{-1}$	$(6.002\ 0.200\ 0.057)\times10^{-2}$
2.65 – 3.00	$(6.546\ 0.048\ 0.058)\times10^{0}$	$(4.188\ 0.120\ 0.058)\times10^{-1}$	$(6.533\ 0.210\ 0.059)\times10^{-2}$
3.00 – 3.36	$(5.155\ 0.038\ 0.046)\times10^{0}$	$(2.837\ 0.094\ 0.042)\times10^{-1}$	$(5.769\ 0.200\ 0.050)\times10^{-2}$
3.36 – 3.73	$(3.957\ 0.031\ 0.035)\times10^{0}$	$(2.315\ 0.078\ 0.035)\times10^{-1}$	$(5.950\ 0.210\ 0.048)\times10^{-2}$
3.73 – 4.12	$(3.122\ 0.025\ 0.028)\times10^{0}$	$(1.763\ 0.062\ 0.028)\times10^{-1}$	$(5.530\ 0.210\ 0.042)\times10^{-2}$
4.12 – 4.54	$(2.443\ 0.020\ 0.023)\times10^{0}$	$(1.340\ 0.049\ 0.022)\times10^{-1}$	$(5.420\ 0.220\ 0.038)\times10^{-2}$
4.54 – 5.00	$(1.943\ 0.016\ 0.019)\times10^{0}$	$(1.083\ 0.040\ 0.018)\times10^{-1}$	$(5.691\ 0.220\ 0.036)\times10^{-2}$
5.00 – 5.49	$(1.469\ 0.013\ 0.015)\times10^{0}$	$(7.924\ 0.310\ 0.140)\times10^{-2}$	$(5.481\ 0.230\ 0.031)\times10^{-2}$
5.49 – 6.00	$(1.169\ 0.010\ 0.012)\times10^{0}$	$(5.814\ 0.240\ 0.100)\times10^{-2}$	$(4.882\ 0.220\ 0.025)\times10^{-2}$
6.00 – 6.54	$(9.152\ 0.084\ 0.099)\times10^{-1}$	$(5.030\ 0.210\ 0.092)\times10^{-2}$	$(5.743\ 0.250\ 0.025)\times10^{-2}$
6.54 – 7.10	$(7.185\ 0.070\ 0.081)\times10^{-1}$	$(3.665\ 0.170\ 0.068)\times10^{-2}$	$(5.209\ 0.250\ 0.020)\times10^{-2}$
7.10 – 7.69	$(5.568\ 0.057\ 0.064)\times10^{-1}$	$(2.963\ 0.140\ 0.057)\times10^{-2}$	$(5.401\ 0.270\ 0.019)\times10^{-2}$
7.69 – 8.30	$(4.465\ 0.049\ 0.053)\times10^{-1}$	$(2.502\ 0.120\ 0.049)\times10^{-2}$	$(5.411\ 0.290\ 0.019)\times10^{-2}$
8.30 – 8.95	$(3.473\ 0.040\ 0.042)\times10^{-1}$	$(1.856\ 0.098\ 0.037)\times10^{-2}$	$(5.265\ 0.310\ 0.018)\times10^{-2}$
8.95 – 9.62	$(2.767\ 0.035\ 0.034)\times10^{-1}$	$(1.508\ 0.085\ 0.031)\times10^{-2}$	$(5.488\ 0.330\ 0.018)\times10^{-2}$
9.62 – 10.32	$(2.305\ 0.030\ 0.029)\times10^{-1}$	$(1.175\ 0.072\ 0.025)\times10^{-2}$	$(5.181\ 0.340\ 0.017)\times10^{-2}$
10.32 – 11.04	$(1.831\ 0.026\ 0.023)\times10^{-1}$	$(9.778\ 0.620\ 0.210)\times10^{-3}$	$(5.084\ 0.360\ 0.016)\times10^{-2}$
11.04 – 11.80	$(1.444\ 0.022\ 0.019)\times10^{-1}$	$(7.468\ 0.520\ 0.170)\times10^{-3}$	$(5.308\ 0.400\ 0.017)\times10^{-2}$
11.80 – 12.59	$(1.142\ 0.019\ 0.015)\times10^{-1}$	$(7.207\ 0.490\ 0.160)\times10^{-3}$	$(6.422\ 0.480\ 0.021)\times10^{-2}$
12.59 – 13.41	$(9.484\ 0.160\ 0.130)\times10^{-2}$	$(5.880\ 0.430\ 0.140)\times10^{-3}$	$(6.097\ 0.490\ 0.019)\times10^{-2}$
13.41 – 14.25	$(7.772\ 0.140\ 0.110)\times10^{-2}$	$(4.648\ 0.370\ 0.110)\times10^{-3}$	$(6.007\ 0.520\ 0.019)\times10^{-2}$
14.25 – 15.14	$(6.584\ 0.130\ 0.091)\times10^{-2}$	$(3.384\ 0.300\ 0.081)\times10^{-3}$	$(5.057\ 0.500\ 0.016)\times10^{-2}$
15.14 – 16.05	$(5.320\ 0.110\ 0.074)\times10^{-2}$	$(2.824\ 0.270\ 0.069)\times10^{-3}$	$(5.303\ 0.550\ 0.017)\times10^{-2}$
16.05 – 17.00	$(4.372\ 0.097\ 0.062)\times10^{-2}$	$(2.773\ 0.250\ 0.068)\times10^{-3}$	$(6.347\ 0.640\ 0.021)\times10^{-2}$
17.00 – 17.98	$(3.787\ 0.087\ 0.054)\times10^{-2}$	$(2.634\ 0.240\ 0.065)\times10^{-3}$	$(6.805\ 0.700\ 0.023)\times10^{-2}$
17.98 – 18.99	$(3.047\ 0.076\ 0.044)\times10^{-2}$	$(1.730\ 0.190\ 0.043)\times10^{-3}$	$(5.632\ 0.680\ 0.019)\times10^{-2}$
18.99 – 20.04	$(2.619\ 0.068\ 0.038)\times10^{-2}$	$(1.781\ 0.180\ 0.045)\times10^{-3}$	$(7.270\ 0.810\ 0.024)\times10^{-2}$
20.04 – 21.13	$(2.079\ 0.059\ 0.031)\times10^{-2}$	$(1.468\ 0.160\ 0.037)\times10^{-3}$	$(7.105\ 0.870\ 0.024)\times10^{-2}$
21.13 – 22.25	$(1.733\ 0.052\ 0.026)\times10^{-2}$	$(1.319\ 0.150\ 0.034)\times10^{-3}$	$(8.114\ 1.000\ 0.028)\times10^{-2}$
22.25 – 23.42	$(1.480\ 0.046\ 0.022)\times10^{-2}$	$(9.969\ 1.200\ 0.250)\times10^{-4}$	$(6.539\ 0.900\ 0.022)\times10^{-2}$
23.42 – 24.62	$(1.282\ 0.041\ 0.019)\times10^{-2}$	$(8.067\ 1.100\ 0.210)\times10^{-4}$	$(5.888\ 0.920\ 0.020)\times10^{-2}$
24.62 – 25.90	$(1.172\ 0.038\ 0.018)\times10^{-2}$	$(7.000\ 0.960\ 0.180)\times10^{-4}$	$(6.335\ 0.920\ 0.022)\times10^{-2}$

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TABLE SM III – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.616 0.330 0.150)$\times10^{-3}$	(7.496 0.930 0.190)$\times10^{-4}$	(7.559 1.100 0.026)$\times10^{-2}$
27.25 – 28.68	(8.269 0.290 0.130)$\times10^{-3}$	(6.890 0.870 0.180)$\times10^{-4}$	(9.175 1.200 0.032)$\times10^{-2}$
28.68 – 30.21	(6.474 0.250 0.100)$\times10^{-3}$	(5.096 0.710 0.130)$\times10^{-4}$	(8.453 1.300 0.029)$\times10^{-2}$
30.21 – 31.82	(5.504 0.220 0.087)$\times10^{-3}$	(4.043 0.630 0.100)$\times10^{-4}$	(6.397 1.200 0.022)$\times10^{-2}$
31.82 – 33.53	(4.897 0.200 0.078)$\times10^{-3}$	(4.530 0.620 0.120)$\times10^{-4}$	(9.481 1.500 0.034)$\times10^{-2}$
33.53 – 35.36	(3.921 0.170 0.063)$\times10^{-3}$	(3.405 0.520 0.087)$\times10^{-4}$	(8.978 1.500 0.032)$\times10^{-2}$
35.36 – 37.31	(3.338 0.150 0.055)$\times10^{-3}$	(3.000 0.480 0.077)$\times10^{-4}$	(8.621 1.600 0.032)$\times10^{-2}$
37.31 – 39.39	(2.672 0.130 0.044)$\times10^{-3}$	(3.009 0.460 0.077)$\times10^{-4}$	(12.60 2.100 0.047)$\times10^{-2}$
39.39 – 41.61	(2.371 0.120 0.040)$\times10^{-3}$	(2.593 0.410 0.066)$\times10^{-4}$	(9.588 1.800 0.037)$\times10^{-2}$
41.61 – 44.00	(1.943 0.110 0.033)$\times10^{-3}$	(1.415 0.290 0.036)$\times10^{-4}$	(7.829 1.800 0.031)$\times10^{-2}$
44.00 – 46.57	(1.655 0.094 0.028)$\times10^{-3}$	(1.609 0.300 0.041)$\times10^{-4}$	(9.186 2.100 0.037)$\times10^{-2}$
46.57 – 49.33	(1.399 0.084 0.024)$\times10^{-3}$	(1.006 0.240 0.026)$\times10^{-4}$	(6.477 1.800 0.027)$\times10^{-2}$

TABLE SM IV: For Bartels Rotation 2428 (July 08, 2011 – August 03, 2011), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.761 0.035 0.047)×10^{1}	(2.466 0.110 0.044)×10^{0}	(9.127 0.440 0.100)×10^{-2}
1.22 – 1.46	(2.289 0.025 0.033)×10^{1}	(1.748 0.073 0.027)×10^{0}	(7.595 0.340 0.083)×10^{-2}
1.46 – 1.72	(1.855 0.017 0.024)×10^{1}	(1.377 0.048 0.019)×10^{0}	(7.343 0.280 0.078)×10^{-2}
1.72 – 2.00	(1.433 0.012 0.016)×10^{1}	(1.005 0.033 0.013)×10^{0}	(6.954 0.250 0.072)×10^{-2}
2.00 – 2.31	(1.129 0.009 0.011)×10^{1}	(7.231 0.220 0.096)×10^{-1}	(6.672 0.220 0.066)×10^{-2}
2.31 – 2.65	(8.778 0.063 0.080)×10^{0}	(5.234 0.160 0.070)×10^{-1}	(6.052 0.200 0.058)×10^{-2}
2.65 – 3.00	(6.838 0.050 0.061)×10^{0}	(3.918 0.120 0.055)×10^{-1}	(5.812 0.200 0.053)×10^{-2}
3.00 – 3.36	(5.385 0.040 0.048)×10^{0}	(3.119 0.100 0.046)×10^{-1}	(5.859 0.200 0.051)×10^{-2}
3.36 – 3.73	(4.230 0.032 0.038)×10^{0}	(2.319 0.079 0.035)×10^{-1}	(5.503 0.200 0.045)×10^{-2}
3.73 – 4.12	(3.330 0.026 0.030)×10^{0}	(1.859 0.064 0.029)×10^{-1}	(5.686 0.210 0.043)×10^{-2}
4.12 – 4.54	(2.591 0.021 0.024)×10^{0}	(1.491 0.052 0.024)×10^{-1}	(5.909 0.220 0.041)×10^{-2}
4.54 – 5.00	(2.032 0.016 0.020)×10^{0}	(1.050 0.039 0.018)×10^{-1}	(5.157 0.210 0.033)×10^{-2}
5.00 – 5.49	(1.574 0.013 0.016)×10^{0}	(8.605 0.320 0.150)×10^{-2}	(5.523 0.220 0.031)×10^{-2}
5.49 – 6.00	(1.211 0.011 0.013)×10^{0}	(6.256 0.250 0.110)×10^{-2}	(5.237 0.230 0.026)×10^{-2}
6.00 – 6.54	(9.630 0.086 0.100)×10^{-1}	(4.618 0.200 0.084)×10^{-2}	(4.798 0.220 0.021)×10^{-2}
6.54 – 7.10	(7.552 0.071 0.085)×10^{-1}	(3.728 0.170 0.070)×10^{-2}	(5.066 0.240 0.019)×10^{-2}
7.10 – 7.69	(5.879 0.058 0.068)×10^{-1}	(3.080 0.140 0.059)×10^{-2}	(5.260 0.260 0.019)×10^{-2}
7.69 – 8.30	(4.662 0.049 0.055)×10^{-1}	(2.253 0.110 0.044)×10^{-2}	(4.705 0.260 0.016)×10^{-2}
8.30 – 8.95	(3.713 0.041 0.045)×10^{-1}	(1.870 0.098 0.038)×10^{-2}	(4.911 0.280 0.017)×10^{-2}
8.95 – 9.62	(2.880 0.035 0.036)×10^{-1}	(1.630 0.087 0.034)×10^{-2}	(5.579 0.330 0.019)×10^{-2}
9.62 – 10.32	(2.337 0.030 0.029)×10^{-1}	(1.251 0.073 0.026)×10^{-2}	(5.336 0.340 0.018)×10^{-2}
10.32 – 11.04	(1.880 0.026 0.024)×10^{-1}	(9.663 0.620 0.210)×10^{-3}	(5.081 0.360 0.016)×10^{-2}
11.04 – 11.80	(1.531 0.022 0.020)×10^{-1}	(8.849 0.560 0.200)×10^{-3}	(5.439 0.390 0.017)×10^{-2}
11.80 – 12.59	(1.210 0.019 0.016)×10^{-1}	(7.230 0.490 0.160)×10^{-3}	(6.053 0.440 0.019)×10^{-2}
12.59 – 13.41	(1.009 0.017 0.014)×10^{-1}	(5.610 0.410 0.130)×10^{-3}	(5.668 0.450 0.018)×10^{-2}
13.41 – 14.25	(8.372 0.150 0.110)×10^{-2}	(5.052 0.380 0.120)×10^{-3}	(6.316 0.510 0.020)×10^{-2}
14.25 – 15.14	(6.355 0.120 0.088)×10^{-2}	(3.391 0.300 0.081)×10^{-3}	(5.185 0.510 0.017)×10^{-2}
15.14 – 16.05	(5.463 0.110 0.076)×10^{-2}	(3.279 0.280 0.080)×10^{-3}	(6.066 0.570 0.020)×10^{-2}
16.05 – 17.00	(4.720 0.099 0.067)×10^{-2}	(2.630 0.250 0.065)×10^{-3}	(5.813 0.590 0.019)×10^{-2}
17.00 – 17.98	(3.817 0.087 0.055)×10^{-2}	(1.964 0.210 0.049)×10^{-3}	(5.015 0.580 0.017)×10^{-2}
17.98 – 18.99	(3.021 0.075 0.044)×10^{-2}	(1.760 0.190 0.044)×10^{-3}	(5.706 0.680 0.019)×10^{-2}
18.99 – 20.04	(2.648 0.068 0.039)×10^{-2}	(1.256 0.150 0.032)×10^{-3}	(4.483 0.620 0.015)×10^{-2}
20.04 – 21.13	(2.084 0.058 0.031)×10^{-2}	(1.383 0.160 0.035)×10^{-3}	(6.763 0.840 0.023)×10^{-2}
21.13 – 22.25	(1.820 0.052 0.027)×10^{-2}	(1.071 0.130 0.027)×10^{-3}	(6.307 0.830 0.021)×10^{-2}
22.25 – 23.42	(1.563 0.047 0.023)×10^{-2}	(1.099 0.130 0.028)×10^{-3}	(7.548 0.950 0.026)×10^{-2}
23.42 – 24.62	(1.264 0.041 0.019)×10^{-2}	(9.571 1.200 0.250)×10^{-4}	(8.019 1.100 0.027)×10^{-2}
24.62 – 25.90	(1.138 0.037 0.017)×10^{-2}	(8.479 1.000 0.220)×10^{-4}	(7.762 1.100 0.027)×10^{-2}

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TABLE SM IV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.158\ 0.320\ 0.140)\times10^{-3}$	$(6.068\ 0.850\ 0.160)\times10^{-4}$	$(5.745\ 0.950\ 0.020)\times10^{-2}$
27.25 – 28.68	$(7.895\ 0.280\ 0.120)\times10^{-3}$	$(5.518\ 0.770\ 0.140)\times10^{-4}$	$(7.629\ 1.100\ 0.026)\times10^{-2}$
28.68 – 30.21	$(6.859\ 0.250\ 0.110)\times10^{-3}$	$(5.377\ 0.740\ 0.140)\times10^{-4}$	$(8.461\ 1.300\ 0.029)\times10^{-2}$
30.21 – 31.82	$(5.658\ 0.220\ 0.090)\times10^{-3}$	$(3.692\ 0.590\ 0.095)\times10^{-4}$	$(5.572\ 1.100\ 0.020)\times10^{-2}$
31.82 – 33.53	$(4.722\ 0.190\ 0.076)\times10^{-3}$	$(3.401\ 0.540\ 0.087)\times10^{-4}$	$(5.675\ 1.100\ 0.020)\times10^{-2}$
33.53 – 35.36	$(4.492\ 0.180\ 0.073)\times10^{-3}$	$(2.886\ 0.490\ 0.074)\times10^{-4}$	$(6.489\ 1.200\ 0.023)\times10^{-2}$
35.36 – 37.31	$(3.302\ 0.150\ 0.054)\times10^{-3}$	$(2.484\ 0.430\ 0.064)\times10^{-4}$	$(7.243\ 1.500\ 0.027)\times10^{-2}$
37.31 – 39.39	$(2.895\ 0.140\ 0.048)\times10^{-3}$	$(2.075\ 0.390\ 0.053)\times10^{-4}$	$(8.555\ 1.600\ 0.032)\times10^{-2}$
39.39 – 41.61	$(2.425\ 0.120\ 0.040)\times10^{-3}$	$(2.026\ 0.360\ 0.052)\times10^{-4}$	$(9.265\ 1.800\ 0.035)\times10^{-2}$
41.61 – 44.00	$(2.042\ 0.110\ 0.034)\times10^{-3}$	$(1.816\ 0.330\ 0.047)\times10^{-4}$	$(6.704\ 1.600\ 0.026)\times10^{-2}$
44.00 – 46.57	$(1.714\ 0.095\ 0.029)\times10^{-3}$	$(1.501\ 0.290\ 0.039)\times10^{-4}$	$(9.539\ 2.000\ 0.039)\times10^{-2}$
46.57 – 49.33	$(1.288\ 0.080\ 0.022)\times10^{-3}$	$(1.247\ 0.260\ 0.032)\times10^{-4}$	$(10.81\ 2.400\ 0.045)\times10^{-2}$

TABLE SM V: For Bartels Rotation 2429 (August 04, 2011 – August 30, 2011), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.712 0.035 0.046)$\times10^{1}$	(2.281 0.110 0.041)$\times10^{0}$	(8.423 0.430 0.095)$\times10^{-2}$
1.22 – 1.46	(2.238 0.025 0.033)$\times10^{1}$	(1.959 0.077 0.030)$\times10^{0}$	(8.879 0.380 0.097)$\times10^{-2}$
1.46 – 1.72	(1.778 0.017 0.023)$\times10^{1}$	(1.376 0.048 0.019)$\times10^{0}$	(7.881 0.300 0.084)$\times10^{-2}$
1.72 – 2.00	(1.421 0.012 0.016)$\times10^{1}$	(1.091 0.033 0.015)$\times10^{0}$	(7.683 0.260 0.079)$\times10^{-2}$
2.00 – 2.31	(1.111 0.008 0.011)$\times10^{1}$	(7.435 0.220 0.098)$\times10^{-1}$	(6.621 0.220 0.066)$\times10^{-2}$
2.31 – 2.65	(8.784 0.062 0.081)$\times10^{0}$	(5.219 0.160 0.070)$\times10^{-1}$	(6.015 0.200 0.058)$\times10^{-2}$
2.65 – 3.00	(6.788 0.048 0.060)$\times10^{0}$	(4.017 0.120 0.056)$\times10^{-1}$	(5.915 0.200 0.054)$\times10^{-2}$
3.00 – 3.36	(5.344 0.039 0.047)$\times10^{0}$	(3.031 0.096 0.044)$\times10^{-1}$	(5.764 0.200 0.050)$\times10^{-2}$
3.36 – 3.73	(4.142 0.031 0.037)$\times10^{0}$	(2.368 0.078 0.036)$\times10^{-1}$	(5.741 0.200 0.046)$\times10^{-2}$
3.73 – 4.12	(3.318 0.025 0.030)$\times10^{0}$	(1.910 0.063 0.030)$\times10^{-1}$	(5.744 0.210 0.043)$\times10^{-2}$
4.12 – 4.54	(2.596 0.020 0.024)$\times10^{0}$	(1.422 0.050 0.023)$\times10^{-1}$	(5.359 0.200 0.037)$\times10^{-2}$
4.54 – 5.00	(2.046 0.016 0.020)$\times10^{0}$	(1.056 0.039 0.018)$\times10^{-1}$	(5.313 0.210 0.034)$\times10^{-2}$
5.00 – 5.49	(1.575 0.013 0.016)$\times10^{0}$	(8.574 0.320 0.150)$\times10^{-2}$	(5.432 0.220 0.031)$\times10^{-2}$
5.49 – 6.00	(1.210 0.010 0.013)$\times10^{0}$	(6.479 0.250 0.120)$\times10^{-2}$	(5.294 0.220 0.027)$\times10^{-2}$
6.00 – 6.54	(9.635 0.084 0.100)$\times10^{-1}$	(4.668 0.200 0.085)$\times10^{-2}$	(5.118 0.230 0.023)$\times10^{-2}$
6.54 – 7.10	(7.547 0.069 0.085)$\times10^{-1}$	(4.013 0.170 0.075)$\times10^{-2}$	(5.309 0.240 0.020)$\times10^{-2}$
7.10 – 7.69	(5.866 0.057 0.068)$\times10^{-1}$	(3.002 0.140 0.057)$\times10^{-2}$	(5.134 0.250 0.018)$\times10^{-2}$
7.69 – 8.30	(4.596 0.048 0.055)$\times10^{-1}$	(2.350 0.120 0.046)$\times10^{-2}$	(5.354 0.280 0.019)$\times10^{-2}$
8.30 – 8.95	(3.628 0.040 0.044)$\times10^{-1}$	(1.934 0.098 0.039)$\times10^{-2}$	(5.673 0.300 0.019)$\times10^{-2}$
8.95 – 9.62	(2.903 0.034 0.036)$\times10^{-1}$	(1.547 0.084 0.032)$\times10^{-2}$	(5.348 0.310 0.018)$\times10^{-2}$
9.62 – 10.32	(2.361 0.030 0.030)$\times10^{-1}$	(1.241 0.072 0.026)$\times10^{-2}$	(5.088 0.320 0.017)$\times10^{-2}$
10.32 – 11.04	(1.897 0.026 0.024)$\times10^{-1}$	(9.369 0.590 0.200)$\times10^{-3}$	(5.043 0.350 0.016)$\times10^{-2}$
11.04 – 11.80	(1.510 0.022 0.020)$\times10^{-1}$	(8.530 0.540 0.190)$\times10^{-3}$	(5.529 0.390 0.018)$\times10^{-2}$
11.80 – 12.59	(1.223 0.019 0.016)$\times10^{-1}$	(6.990 0.470 0.160)$\times10^{-3}$	(5.548 0.410 0.018)$\times10^{-2}$
12.59 – 13.41	(1.022 0.017 0.014)$\times10^{-1}$	(6.360 0.430 0.150)$\times10^{-3}$	(6.230 0.470 0.020)$\times10^{-2}$
13.41 – 14.25	(8.091 0.140 0.110)$\times10^{-2}$	(4.853 0.360 0.110)$\times10^{-3}$	(5.864 0.490 0.019)$\times10^{-2}$
14.25 – 15.14	(6.635 0.120 0.092)$\times10^{-2}$	(4.044 0.320 0.097)$\times10^{-3}$	(5.708 0.510 0.018)$\times10^{-2}$
15.14 – 16.05	(5.416 0.110 0.076)$\times10^{-2}$	(3.490 0.290 0.085)$\times10^{-3}$	(6.350 0.580 0.021)$\times10^{-2}$
16.05 – 17.00	(4.422 0.095 0.063)$\times10^{-2}$	(2.562 0.240 0.063)$\times10^{-3}$	(5.832 0.600 0.019)$\times10^{-2}$
17.00 – 17.98	(3.623 0.083 0.052)$\times10^{-2}$	(2.466 0.230 0.061)$\times10^{-3}$	(6.476 0.680 0.021)$\times10^{-2}$
17.98 – 18.99	(3.146 0.075 0.046)$\times10^{-2}$	(1.838 0.190 0.046)$\times10^{-3}$	(5.978 0.670 0.020)$\times10^{-2}$
18.99 – 20.04	(2.655 0.066 0.039)$\times10^{-2}$	(1.448 0.160 0.037)$\times10^{-3}$	(6.014 0.710 0.020)$\times10^{-2}$
20.04 – 21.13	(2.166 0.058 0.032)$\times10^{-2}$	(1.418 0.150 0.036)$\times10^{-3}$	(7.093 0.830 0.024)$\times10^{-2}$
21.13 – 22.25	(1.880 0.052 0.028)$\times10^{-2}$	(1.175 0.140 0.030)$\times10^{-3}$	(7.118 0.870 0.024)$\times10^{-2}$
22.25 – 23.42	(1.607 0.046 0.024)$\times10^{-2}$	(8.835 1.100 0.230)$\times10^{-4}$	(5.819 0.810 0.020)$\times10^{-2}$
23.42 – 24.62	(1.367 0.041 0.021)$\times10^{-2}$	(7.849 1.000 0.200)$\times10^{-4}$	(5.889 0.860 0.020)$\times10^{-2}$
24.62 – 25.90	(1.113 0.036 0.017)$\times10^{-2}$	(8.979 1.000 0.230)$\times10^{-4}$	(7.677 1.000 0.026)$\times10^{-2}$

Continued on next page

TABLE SM V – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.619 0.320 0.150)$\times10^{-3}$	(7.024 0.900 0.180)$\times10^{-4}$	(6.455 0.980 0.022)$\times10^{-2}$
27.25 – 28.68	(8.122 0.280 0.130)$\times10^{-3}$	(5.273 0.750 0.140)$\times10^{-4}$	(6.283 1.000 0.022)$\times10^{-2}$
28.68 – 30.21	(6.390 0.240 0.100)$\times10^{-3}$	(5.972 0.760 0.150)$\times10^{-4}$	(9.643 1.400 0.033)$\times10^{-2}$
30.21 – 31.82	(5.709 0.220 0.090)$\times10^{-3}$	(4.366 0.620 0.110)$\times10^{-4}$	(8.100 1.300 0.028)$\times10^{-2}$
31.82 – 33.53	(4.885 0.190 0.078)$\times10^{-3}$	(3.160 0.510 0.081)$\times10^{-4}$	(6.469 1.200 0.023)$\times10^{-2}$
33.53 – 35.36	(3.872 0.170 0.063)$\times10^{-3}$	(2.493 0.430 0.064)$\times10^{-4}$	(6.860 1.300 0.025)$\times10^{-2}$
35.36 – 37.31	(3.282 0.150 0.054)$\times10^{-3}$	(3.781 0.520 0.097)$\times10^{-4}$	(11.62 1.800 0.043)$\times10^{-2}$
37.31 – 39.39	(2.703 0.130 0.045)$\times10^{-3}$	(2.059 0.370 0.053)$\times10^{-4}$	(8.453 1.600 0.032)$\times10^{-2}$
39.39 – 41.61	(2.451 0.120 0.041)$\times10^{-3}$	(2.185 0.370 0.056)$\times10^{-4}$	(9.667 1.800 0.037)$\times10^{-2}$
41.61 – 44.00	(2.095 0.110 0.035)$\times10^{-3}$	(1.724 0.320 0.044)$\times10^{-4}$	(9.787 1.900 0.038)$\times10^{-2}$
44.00 – 46.57	(1.818 0.097 0.031)$\times10^{-3}$	(1.556 0.290 0.040)$\times10^{-4}$	(8.249 1.800 0.033)$\times10^{-2}$
46.57 – 49.33	(1.578 0.087 0.027)$\times10^{-3}$	(8.283 2.100 0.210)$\times10^{-5}$	(6.449 1.700 0.027)$\times10^{-2}$

TABLE SM VI: For Bartels Rotation 2430 (August 31, 2011 – September 26, 2011), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.737 0.034 0.046)$\times10^{1}$	(2.483 0.110 0.045)$\times10^{0}$	(9.106 0.430 0.100)$\times10^{-2}$
1.22 – 1.46	(2.243 0.024 0.033)$\times10^{1}$	(1.945 0.074 0.030)$\times10^{0}$	(8.646 0.360 0.095)$\times10^{-2}$
1.46 – 1.72	(1.827 0.016 0.023)$\times10^{1}$	(1.430 0.048 0.020)$\times10^{0}$	(7.931 0.280 0.084)$\times10^{-2}$
1.72 – 2.00	(1.417 0.011 0.016)$\times10^{1}$	(9.667 0.310 0.130)$\times10^{-1}$	(6.676 0.230 0.069)$\times10^{-2}$
2.00 – 2.31	(1.113 0.008 0.011)$\times10^{1}$	(7.715 0.220 0.100)$\times10^{-1}$	(7.019 0.220 0.070)$\times10^{-2}$
2.31 – 2.65	(8.750 0.061 0.080)$\times10^{0}$	(5.646 0.160 0.076)$\times10^{-1}$	(6.354 0.200 0.061)$\times10^{-2}$
2.65 – 3.00	(6.801 0.047 0.060)$\times10^{0}$	(4.075 0.120 0.057)$\times10^{-1}$	(6.034 0.190 0.055)$\times10^{-2}$
3.00 – 3.36	(5.338 0.038 0.047)$\times10^{0}$	(3.262 0.098 0.048)$\times10^{-1}$	(6.198 0.200 0.053)$\times10^{-2}$
3.36 – 3.73	(4.227 0.031 0.038)$\times10^{0}$	(2.377 0.077 0.036)$\times10^{-1}$	(5.681 0.200 0.046)$\times10^{-2}$
3.73 – 4.12	(3.271 0.025 0.030)$\times10^{0}$	(1.794 0.061 0.028)$\times10^{-1}$	(5.661 0.200 0.043)$\times10^{-2}$
4.12 – 4.54	(2.567 0.020 0.024)$\times10^{0}$	(1.416 0.049 0.023)$\times10^{-1}$	(5.476 0.200 0.038)$\times10^{-2}$
4.54 – 5.00	(2.046 0.016 0.020)$\times10^{0}$	(1.111 0.039 0.019)$\times10^{-1}$	(5.413 0.210 0.034)$\times10^{-2}$
5.00 – 5.49	(1.583 0.013 0.016)$\times10^{0}$	(8.842 0.320 0.150)$\times10^{-2}$	(5.372 0.210 0.030)$\times10^{-2}$
5.49 – 6.00	(1.244 0.010 0.013)$\times10^{0}$	(6.413 0.250 0.110)$\times10^{-2}$	(5.275 0.220 0.027)$\times10^{-2}$
6.00 – 6.54	(9.430 0.083 0.100)$\times10^{-1}$	(5.173 0.200 0.094)$\times10^{-2}$	(5.459 0.230 0.024)$\times10^{-2}$
6.54 – 7.10	(7.606 0.069 0.086)$\times10^{-1}$	(3.851 0.160 0.072)$\times10^{-2}$	(4.939 0.230 0.019)$\times10^{-2}$
7.10 – 7.69	(5.926 0.057 0.069)$\times10^{-1}$	(3.037 0.140 0.058)$\times10^{-2}$	(5.129 0.250 0.018)$\times10^{-2}$
7.69 – 8.30	(4.696 0.048 0.056)$\times10^{-1}$	(2.472 0.120 0.048)$\times10^{-2}$	(5.357 0.270 0.019)$\times10^{-2}$
8.30 – 8.95	(3.627 0.040 0.044)$\times10^{-1}$	(1.879 0.095 0.038)$\times10^{-2}$	(5.172 0.280 0.017)$\times10^{-2}$
8.95 – 9.62	(2.912 0.034 0.036)$\times10^{-1}$	(1.568 0.083 0.032)$\times10^{-2}$	(5.348 0.310 0.018)$\times10^{-2}$
9.62 – 10.32	(2.343 0.029 0.030)$\times10^{-1}$	(1.187 0.069 0.025)$\times10^{-2}$	(5.279 0.330 0.017)$\times10^{-2}$
10.32 – 11.04	(1.897 0.025 0.024)$\times10^{-1}$	(1.055 0.062 0.023)$\times10^{-2}$	(5.632 0.360 0.018)$\times10^{-2}$
11.04 – 11.80	(1.490 0.021 0.019)$\times10^{-1}$	(8.546 0.530 0.190)$\times10^{-3}$	(5.716 0.390 0.018)$\times10^{-2}$
11.80 – 12.59	(1.263 0.019 0.017)$\times10^{-1}$	(6.657 0.450 0.150)$\times10^{-3}$	(5.492 0.400 0.018)$\times10^{-2}$
12.59 – 13.41	(9.907 0.160 0.130)$\times10^{-2}$	(5.817 0.410 0.130)$\times10^{-3}$	(5.955 0.450 0.019)$\times10^{-2}$
13.41 – 14.25	(8.090 0.140 0.110)$\times10^{-2}$	(4.713 0.360 0.110)$\times10^{-3}$	(5.817 0.490 0.019)$\times10^{-2}$
14.25 – 15.14	(6.648 0.120 0.092)$\times10^{-2}$	(3.842 0.310 0.092)$\times10^{-3}$	(5.835 0.510 0.019)$\times10^{-2}$
15.14 – 16.05	(5.701 0.110 0.080)$\times10^{-2}$	(3.419 0.280 0.083)$\times10^{-3}$	(6.058 0.550 0.020)$\times10^{-2}$
16.05 – 17.00	(4.590 0.095 0.065)$\times10^{-2}$	(3.219 0.260 0.079)$\times10^{-3}$	(6.953 0.630 0.023)$\times10^{-2}$
17.00 – 17.98	(3.742 0.083 0.053)$\times10^{-2}$	(2.309 0.210 0.057)$\times10^{-3}$	(5.942 0.620 0.020)$\times10^{-2}$
17.98 – 18.99	(3.093 0.073 0.045)$\times10^{-2}$	(1.955 0.190 0.049)$\times10^{-3}$	(6.157 0.680 0.021)$\times10^{-2}$
18.99 – 20.04	(2.674 0.066 0.039)$\times10^{-2}$	(1.725 0.170 0.044)$\times10^{-3}$	(6.387 0.710 0.021)$\times10^{-2}$
20.04 – 21.13	(2.271 0.059 0.033)$\times10^{-2}$	(1.392 0.150 0.035)$\times10^{-3}$	(6.228 0.740 0.021)$\times10^{-2}$
21.13 – 22.25	(1.738 0.050 0.026)$\times10^{-2}$	(1.218 0.140 0.031)$\times10^{-3}$	(7.227 0.880 0.025)$\times10^{-2}$
22.25 – 23.42	(1.605 0.046 0.024)$\times10^{-2}$	(1.323 0.140 0.034)$\times10^{-3}$	(8.582 0.970 0.029)$\times10^{-2}$
23.42 – 24.62	(1.375 0.041 0.021)$\times10^{-2}$	(9.173 1.100 0.240)$\times10^{-4}$	(6.705 0.890 0.023)$\times10^{-2}$
24.62 – 25.90	(1.120 0.035 0.017)$\times10^{-2}$	(8.833 1.000 0.230)$\times10^{-4}$	(8.169 1.000 0.028)$\times10^{-2}$

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TABLE SM VI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.586\ 0.310\ 0.150)\times10^{-3}$	$(7.880\ 0.930\ 0.200)\times10^{-4}$	$(8.552\ 1.100\ 0.029)\times10^{-2}$
27.25 – 28.68	$(8.411\ 0.280\ 0.130)\times10^{-3}$	$(5.796\ 0.770\ 0.150)\times10^{-4}$	$(7.104\ 1.000\ 0.025)\times10^{-2}$
28.68 – 30.21	$(6.386\ 0.230\ 0.100)\times10^{-3}$	$(5.220\ 0.700\ 0.130)\times10^{-4}$	$(8.734\ 1.300\ 0.030)\times10^{-2}$
30.21 – 31.82	$(5.583\ 0.210\ 0.088)\times10^{-3}$	$(4.258\ 0.610\ 0.110)\times10^{-4}$	$(8.312\ 1.300\ 0.029)\times10^{-2}$
31.82 – 33.53	$(4.722\ 0.190\ 0.076)\times10^{-3}$	$(3.142\ 0.510\ 0.081)\times10^{-4}$	$(6.794\ 1.200\ 0.024)\times10^{-2}$
33.53 – 35.36	$(4.171\ 0.170\ 0.067)\times10^{-3}$	$(3.258\ 0.490\ 0.084)\times10^{-4}$	$(8.336\ 1.400\ 0.030)\times10^{-2}$
35.36 – 37.31	$(3.563\ 0.150\ 0.058)\times10^{-3}$	$(1.944\ 0.370\ 0.050)\times10^{-4}$	$(6.140\ 1.200\ 0.022)\times10^{-2}$
37.31 – 39.39	$(2.785\ 0.130\ 0.046)\times10^{-3}$	$(2.637\ 0.410\ 0.068)\times10^{-4}$	$(9.287\ 1.700\ 0.035)\times10^{-2}$
39.39 – 41.61	$(2.711\ 0.120\ 0.045)\times10^{-3}$	$(1.602\ 0.320\ 0.041)\times10^{-4}$	$(6.189\ 1.300\ 0.024)\times10^{-2}$
41.61 – 44.00	$(2.060\ 0.100\ 0.035)\times10^{-3}$	$(2.016\ 0.340\ 0.052)\times10^{-4}$	$(9.170\ 1.800\ 0.036)\times10^{-2}$
44.00 – 46.57	$(1.666\ 0.091\ 0.028)\times10^{-3}$	$(1.297\ 0.270\ 0.033)\times10^{-4}$	$(9.340\ 2.000\ 0.038)\times10^{-2}$
46.57 – 49.33	$(1.421\ 0.082\ 0.025)\times10^{-3}$	$(1.202\ 0.250\ 0.031)\times10^{-4}$	$(8.572\ 2.000\ 0.036)\times10^{-2}$

TABLE SM VII: For Bartels Rotation 2431 (September 27, 2011 – October 23, 2011), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.573 0.033 0.044)×10^{1}	(2.154 0.099 0.039)×10^{0}	(8.169 0.410 0.092)×10^{-2}
1.22 – 1.46	(2.127 0.023 0.031)×10^{1}	(1.735 0.069 0.027)×10^{0}	(8.146 0.350 0.089)×10^{-2}
1.46 – 1.72	(1.690 0.015 0.022)×10^{1}	(1.217 0.043 0.017)×10^{0}	(7.141 0.270 0.076)×10^{-2}
1.72 – 2.00	(1.356 0.011 0.015)×10^{1}	(9.208 0.300 0.120)×10^{-1}	(6.818 0.240 0.070)×10^{-2}
2.00 – 2.31	(1.067 0.008 0.011)×10^{1}	(7.313 0.210 0.097)×10^{-1}	(6.743 0.220 0.067)×10^{-2}
2.31 – 2.65	(8.328 0.058 0.076)×10^{0}	(5.032 0.150 0.068)×10^{-1}	(6.095 0.200 0.058)×10^{-2}
2.65 – 3.00	(6.409 0.045 0.057)×10^{0}	(3.838 0.120 0.054)×10^{-1}	(6.099 0.200 0.056)×10^{-2}
3.00 – 3.36	(5.100 0.037 0.045)×10^{0}	(3.007 0.093 0.044)×10^{-1}	(6.056 0.200 0.052)×10^{-2}
3.36 – 3.73	(4.022 0.030 0.036)×10^{0}	(2.275 0.074 0.035)×10^{-1}	(5.624 0.200 0.045)×10^{-2}
3.73 – 4.12	(3.205 0.024 0.029)×10^{0}	(1.728 0.059 0.027)×10^{-1}	(5.406 0.200 0.041)×10^{-2}
4.12 – 4.54	(2.562 0.020 0.024)×10^{0}	(1.384 0.048 0.023)×10^{-1}	(5.302 0.200 0.037)×10^{-2}
4.54 – 5.00	(1.975 0.015 0.019)×10^{0}	(1.032 0.037 0.017)×10^{-1}	(5.252 0.200 0.033)×10^{-2}
5.00 – 5.49	(1.542 0.012 0.015)×10^{0}	(7.323 0.280 0.130)×10^{-2}	(4.961 0.200 0.028)×10^{-2}
5.49 – 6.00	(1.189 0.010 0.012)×10^{0}	(6.240 0.240 0.110)×10^{-2}	(5.336 0.220 0.027)×10^{-2}
6.00 – 6.54	(9.455 0.082 0.100)×10^{-1}	(4.818 0.190 0.088)×10^{-2}	(5.189 0.220 0.023)×10^{-2}
6.54 – 7.10	(7.289 0.067 0.082)×10^{-1}	(3.503 0.150 0.065)×10^{-2}	(4.875 0.230 0.019)×10^{-2}
7.10 – 7.69	(5.768 0.056 0.067)×10^{-1}	(2.952 0.130 0.056)×10^{-2}	(5.064 0.250 0.018)×10^{-2}
7.69 – 8.30	(4.544 0.047 0.054)×10^{-1}	(2.327 0.110 0.046)×10^{-2}	(5.150 0.270 0.018)×10^{-2}
8.30 – 8.95	(3.557 0.039 0.043)×10^{-1}	(1.816 0.092 0.036)×10^{-2}	(5.054 0.280 0.017)×10^{-2}
8.95 – 9.62	(2.895 0.034 0.036)×10^{-1}	(1.543 0.082 0.032)×10^{-2}	(5.481 0.310 0.018)×10^{-2}
9.62 – 10.32	(2.304 0.029 0.029)×10^{-1}	(1.307 0.072 0.028)×10^{-2}	(5.768 0.340 0.019)×10^{-2}
10.32 – 11.04	(1.875 0.025 0.024)×10^{-1}	(9.647 0.590 0.210)×10^{-3}	(5.102 0.340 0.017)×10^{-2}
11.04 – 11.80	(1.465 0.021 0.019)×10^{-1}	(8.324 0.520 0.180)×10^{-3}	(5.780 0.390 0.019)×10^{-2}
11.80 – 12.59	(1.194 0.018 0.016)×10^{-1}	(6.095 0.430 0.140)×10^{-3}	(4.867 0.380 0.016)×10^{-2}
12.59 – 13.41	(9.901 0.160 0.130)×10^{-2}	(5.696 0.400 0.130)×10^{-3}	(5.492 0.430 0.018)×10^{-2}
13.41 – 14.25	(8.054 0.140 0.110)×10^{-2}	(4.766 0.350 0.110)×10^{-3}	(6.291 0.500 0.020)×10^{-2}
14.25 – 15.14	(6.436 0.120 0.089)×10^{-2}	(3.610 0.300 0.087)×10^{-3}	(6.068 0.530 0.020)×10^{-2}
15.14 – 16.05	(5.559 0.110 0.078)×10^{-2}	(3.837 0.300 0.093)×10^{-3}	(6.652 0.580 0.022)×10^{-2}
16.05 – 17.00	(4.497 0.094 0.064)×10^{-2}	(2.854 0.250 0.070)×10^{-3}	(6.642 0.630 0.022)×10^{-2}
17.00 – 17.98	(3.763 0.083 0.054)×10^{-2}	(2.245 0.210 0.056)×10^{-3}	(6.497 0.650 0.022)×10^{-2}
17.98 – 18.99	(3.127 0.073 0.045)×10^{-2}	(2.304 0.210 0.058)×10^{-3}	(7.618 0.750 0.025)×10^{-2}
18.99 – 20.04	(2.494 0.063 0.036)×10^{-2}	(1.468 0.160 0.037)×10^{-3}	(6.312 0.730 0.021)×10^{-2}
20.04 – 21.13	(2.244 0.058 0.033)×10^{-2}	(1.336 0.150 0.034)×10^{-3}	(6.240 0.750 0.021)×10^{-2}
21.13 – 22.25	(1.854 0.051 0.028)×10^{-2}	(1.171 0.130 0.030)×10^{-3}	(7.200 0.860 0.024)×10^{-2}
22.25 – 23.42	(1.593 0.045 0.024)×10^{-2}	(1.127 0.120 0.029)×10^{-3}	(7.435 0.890 0.025)×10^{-2}
23.42 – 24.62	(1.364 0.041 0.021)×10^{-2}	(7.705 1.000 0.200)×10^{-4}	(6.134 0.870 0.021)×10^{-2}
24.62 – 25.90	(1.117 0.035 0.017)×10^{-2}	(7.919 0.960 0.200)×10^{-4}	(7.560 0.990 0.026)×10^{-2}

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TABLE SM VII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.098 0.300 0.140)$\times10^{-3}$	(6.971 0.860 0.180)$\times10^{-4}$	(7.980 1.100 0.027)$\times10^{-2}$
27.25 – 28.68	(8.044 0.270 0.130)$\times10^{-3}$	(6.910 0.820 0.180)$\times10^{-4}$	(8.962 1.200 0.031)$\times10^{-2}$
28.68 – 30.21	(6.433 0.230 0.100)$\times10^{-3}$	(4.388 0.640 0.110)$\times10^{-4}$	(7.651 1.200 0.027)$\times10^{-2}$
30.21 – 31.82	(5.762 0.210 0.091)$\times10^{-3}$	(3.940 0.580 0.100)$\times10^{-4}$	(6.879 1.100 0.024)$\times10^{-2}$
31.82 – 33.53	(4.752 0.190 0.076)$\times10^{-3}$	(2.971 0.490 0.076)$\times10^{-4}$	(5.705 1.100 0.020)$\times10^{-2}$
33.53 – 35.36	(4.212 0.170 0.068)$\times10^{-3}$	(3.028 0.480 0.078)$\times10^{-4}$	(6.961 1.300 0.025)$\times10^{-2}$
35.36 – 37.31	(2.915 0.140 0.048)$\times10^{-3}$	(2.617 0.430 0.067)$\times10^{-4}$	(9.159 1.700 0.034)$\times10^{-2}$
37.31 – 39.39	(2.889 0.130 0.048)$\times10^{-3}$	(2.759 0.420 0.071)$\times10^{-4}$	(9.034 1.600 0.034)$\times10^{-2}$
39.39 – 41.61	(2.670 0.120 0.045)$\times10^{-3}$	(2.039 0.360 0.052)$\times10^{-4}$	(7.556 1.500 0.029)$\times10^{-2}$
41.61 – 44.00	(2.070 0.100 0.035)$\times10^{-3}$	(1.672 0.310 0.043)$\times10^{-4}$	(7.562 1.600 0.030)$\times10^{-2}$
44.00 – 46.57	(1.795 0.094 0.031)$\times10^{-3}$	(1.493 0.290 0.038)$\times10^{-4}$	(7.653 1.700 0.031)$\times10^{-2}$
46.57 – 49.33	(1.254 0.076 0.022)$\times10^{-3}$	(1.216 0.240 0.031)$\times10^{-4}$	(9.198 2.100 0.039)$\times10^{-2}$

TABLE SM VIII: For Bartels Rotation 2432 (October 24, 2011 – November 19, 2011), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.710 0.034 0.046)×10^{1}	(2.214 0.100 0.040)×10^{0}	(8.137 0.400 0.092)×10^{-2}
1.22 – 1.46	(2.208 0.024 0.032)×10^{1}	(1.985 0.074 0.030)×10^{0}	(8.875 0.360 0.097)×10^{-2}
1.46 – 1.72	(1.798 0.016 0.023)×10^{1}	(1.235 0.044 0.017)×10^{0}	(6.885 0.260 0.073)×10^{-2}
1.72 – 2.00	(1.385 0.011 0.016)×10^{1}	(9.869 0.310 0.130)×10^{-1}	(7.152 0.240 0.074)×10^{-2}
2.00 – 2.31	(1.111 0.008 0.011)×10^{1}	(7.565 0.220 0.100)×10^{-1}	(6.925 0.220 0.069)×10^{-2}
2.31 – 2.65	(8.692 0.060 0.080)×10^{0}	(5.424 0.160 0.073)×10^{-1}	(6.124 0.190 0.059)×10^{-2}
2.65 – 3.00	(6.762 0.047 0.060)×10^{0}	(4.221 0.120 0.059)×10^{-1}	(6.308 0.200 0.057)×10^{-2}
3.00 – 3.36	(5.378 0.038 0.048)×10^{0}	(2.999 0.094 0.044)×10^{-1}	(5.528 0.190 0.048)×10^{-2}
3.36 – 3.73	(4.184 0.031 0.037)×10^{0}	(2.340 0.076 0.036)×10^{-1}	(5.585 0.190 0.045)×10^{-2}
3.73 – 4.12	(3.323 0.025 0.030)×10^{0}	(1.796 0.061 0.028)×10^{-1}	(5.421 0.200 0.041)×10^{-2}
4.12 – 4.54	(2.599 0.020 0.024)×10^{0}	(1.356 0.048 0.022)×10^{-1}	(5.182 0.200 0.036)×10^{-2}
4.54 – 5.00	(2.016 0.016 0.019)×10^{0}	(1.118 0.039 0.019)×10^{-1}	(5.708 0.210 0.036)×10^{-2}
5.00 – 5.49	(1.587 0.013 0.016)×10^{0}	(8.598 0.310 0.150)×10^{-2}	(5.495 0.210 0.031)×10^{-2}
5.49 – 6.00	(1.225 0.010 0.013)×10^{0}	(6.088 0.240 0.110)×10^{-2}	(5.022 0.210 0.025)×10^{-2}
6.00 – 6.54	(9.677 0.083 0.110)×10^{-1}	(4.829 0.200 0.088)×10^{-2}	(5.057 0.220 0.022)×10^{-2}
6.54 – 7.10	(7.578 0.068 0.085)×10^{-1}	(3.840 0.160 0.072)×10^{-2}	(5.146 0.230 0.020)×10^{-2}
7.10 – 7.69	(5.808 0.056 0.067)×10^{-1}	(3.149 0.140 0.060)×10^{-2}	(5.528 0.260 0.020)×10^{-2}
7.69 – 8.30	(4.652 0.048 0.055)×10^{-1}	(2.396 0.110 0.047)×10^{-2}	(5.258 0.270 0.018)×10^{-2}
8.30 – 8.95	(3.702 0.040 0.045)×10^{-1}	(2.002 0.098 0.040)×10^{-2}	(5.589 0.290 0.019)×10^{-2}
8.95 – 9.62	(2.958 0.034 0.037)×10^{-1}	(1.483 0.081 0.031)×10^{-2}	(5.163 0.300 0.017)×10^{-2}
9.62 – 10.32	(2.364 0.029 0.030)×10^{-1}	(1.219 0.070 0.026)×10^{-2}	(5.476 0.330 0.018)×10^{-2}
10.32 – 11.04	(1.913 0.025 0.025)×10^{-1}	(1.084 0.063 0.023)×10^{-2}	(5.509 0.350 0.018)×10^{-2}
11.04 – 11.80	(1.505 0.021 0.020)×10^{-1}	(9.155 0.550 0.200)×10^{-3}	(6.097 0.400 0.020)×10^{-2}
11.80 – 12.59	(1.215 0.018 0.016)×10^{-1}	(6.830 0.460 0.150)×10^{-3}	(5.596 0.410 0.018)×10^{-2}
12.59 – 13.41	(1.036 0.016 0.014)×10^{-1}	(5.544 0.400 0.130)×10^{-3}	(5.187 0.410 0.017)×10^{-2}
13.41 – 14.25	(8.150 0.140 0.110)×10^{-2}	(4.267 0.340 0.100)×10^{-3}	(5.187 0.450 0.017)×10^{-2}
14.25 – 15.14	(6.660 0.120 0.092)×10^{-2}	(3.707 0.300 0.089)×10^{-3}	(5.894 0.510 0.019)×10^{-2}
15.14 – 16.05	(5.453 0.110 0.076)×10^{-2}	(3.576 0.290 0.087)×10^{-3}	(6.185 0.560 0.020)×10^{-2}
16.05 – 17.00	(4.379 0.093 0.062)×10^{-2}	(3.093 0.260 0.076)×10^{-3}	(7.225 0.650 0.024)×10^{-2}
17.00 – 17.98	(3.858 0.084 0.055)×10^{-2}	(2.632 0.230 0.065)×10^{-3}	(7.192 0.680 0.024)×10^{-2}
17.98 – 18.99	(3.115 0.073 0.045)×10^{-2}	(2.232 0.200 0.056)×10^{-3}	(6.990 0.720 0.023)×10^{-2}
18.99 – 20.04	(2.683 0.066 0.039)×10^{-2}	(1.736 0.180 0.044)×10^{-3}	(6.432 0.720 0.022)×10^{-2}
20.04 – 21.13	(2.128 0.057 0.031)×10^{-2}	(1.371 0.150 0.035)×10^{-3}	(6.261 0.770 0.021)×10^{-2}
21.13 – 22.25	(1.868 0.051 0.028)×10^{-2}	(1.242 0.140 0.032)×10^{-3}	(7.052 0.850 0.024)×10^{-2}
22.25 – 23.42	(1.549 0.045 0.023)×10^{-2}	(8.959 1.100 0.230)×10^{-4}	(5.627 0.790 0.019)×10^{-2}
23.42 – 24.62	(1.360 0.041 0.021)×10^{-2}	(9.116 1.100 0.230)×10^{-4}	(7.278 0.950 0.025)×10^{-2}
24.62 – 25.90	(1.156 0.036 0.018)×10^{-2}	(8.108 0.980 0.210)×10^{-4}	(7.503 1.000 0.026)×10^{-2}

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TABLE SM VIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.186 0.310 0.140)$\times10^{-3}$	(6.167 0.830 0.160)$\times10^{-4}$	(6.294 0.970 0.022)$\times10^{-2}$
27.25 – 28.68	(8.152 0.280 0.130)$\times10^{-3}$	(5.763 0.760 0.150)$\times10^{-4}$	(7.847 1.100 0.027)$\times10^{-2}$
28.68 – 30.21	(6.895 0.240 0.110)$\times10^{-3}$	(5.368 0.720 0.140)$\times10^{-4}$	(8.056 1.200 0.028)$\times10^{-2}$
30.21 – 31.82	(5.584 0.210 0.088)$\times10^{-3}$	(4.205 0.610 0.110)$\times10^{-4}$	(7.029 1.200 0.025)$\times10^{-2}$
31.82 – 33.53	(4.954 0.190 0.079)$\times10^{-3}$	(4.531 0.600 0.120)$\times10^{-4}$	(9.236 1.400 0.033)$\times10^{-2}$
33.53 – 35.36	(3.961 0.170 0.064)$\times10^{-3}$	(2.958 0.470 0.076)$\times10^{-4}$	(6.241 1.200 0.022)$\times10^{-2}$
35.36 – 37.31	(3.207 0.140 0.052)$\times10^{-3}$	(2.977 0.460 0.076)$\times10^{-4}$	(10.45 1.700 0.038)$\times10^{-2}$
37.31 – 39.39	(2.864 0.130 0.047)$\times10^{-3}$	(2.366 0.400 0.061)$\times10^{-4}$	(8.357 1.600 0.031)$\times10^{-2}$
39.39 – 41.61	(2.298 0.110 0.038)$\times10^{-3}$	(1.943 0.350 0.050)$\times10^{-4}$	(8.826 1.700 0.034)$\times10^{-2}$
41.61 – 44.00	(1.922 0.100 0.032)$\times10^{-3}$	(1.812 0.320 0.046)$\times10^{-4}$	(9.277 1.900 0.036)$\times10^{-2}$
44.00 – 46.57	(1.644 0.091 0.028)$\times10^{-3}$	(2.032 0.330 0.052)$\times10^{-4}$	(13.33 2.400 0.054)$\times10^{-2}$
46.57 – 49.33	(1.505 0.084 0.026)$\times10^{-3}$	(1.153 0.240 0.030)$\times10^{-4}$	(8.065 1.800 0.034)$\times10^{-2}$

TABLE SM IX: For Bartels Rotation 2433 (November 20, 2011 – December 16, 2011), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.623 0.034 0.045)$\times10^{1}$	(2.379 0.110 0.043)$\times10^{0}$	(8.785 0.440 0.099)$\times10^{-2}$
1.22 – 1.46	(2.219 0.025 0.032)$\times10^{1}$	(1.717 0.072 0.026)$\times10^{0}$	(7.893 0.360 0.087)$\times10^{-2}$
1.46 – 1.72	(1.805 0.017 0.023)$\times10^{1}$	(1.428 0.049 0.020)$\times10^{0}$	(7.861 0.290 0.084)$\times10^{-2}$
1.72 – 2.00	(1.436 0.012 0.016)$\times10^{1}$	(9.593 0.320 0.130)$\times10^{-1}$	(6.823 0.240 0.070)$\times10^{-2}$
2.00 – 2.31	(1.123 0.009 0.011)$\times10^{1}$	(7.720 0.230 0.100)$\times10^{-1}$	(6.941 0.220 0.069)$\times10^{-2}$
2.31 – 2.65	(8.634 0.063 0.079)$\times10^{0}$	(5.573 0.170 0.075)$\times10^{-1}$	(6.513 0.210 0.062)$\times10^{-2}$
2.65 – 3.00	(6.883 0.050 0.061)$\times10^{0}$	(4.239 0.130 0.059)$\times10^{-1}$	(6.166 0.200 0.056)$\times10^{-2}$
3.00 – 3.36	(5.368 0.040 0.048)$\times10^{0}$	(3.285 0.100 0.048)$\times10^{-1}$	(6.133 0.210 0.053)$\times10^{-2}$
3.36 – 3.73	(4.232 0.032 0.038)$\times10^{0}$	(2.421 0.081 0.037)$\times10^{-1}$	(5.844 0.210 0.047)$\times10^{-2}$
3.73 – 4.12	(3.353 0.026 0.030)$\times10^{0}$	(1.884 0.065 0.030)$\times10^{-1}$	(5.742 0.210 0.043)$\times10^{-2}$
4.12 – 4.54	(2.644 0.021 0.025)$\times10^{0}$	(1.341 0.050 0.022)$\times10^{-1}$	(5.217 0.200 0.036)$\times10^{-2}$
4.54 – 5.00	(2.028 0.017 0.020)$\times10^{0}$	(1.183 0.042 0.020)$\times10^{-1}$	(5.829 0.220 0.037)$\times10^{-2}$
5.00 – 5.49	(1.597 0.013 0.016)$\times10^{0}$	(8.153 0.320 0.140)$\times10^{-2}$	(5.051 0.210 0.029)$\times10^{-2}$
5.49 – 6.00	(1.217 0.011 0.013)$\times10^{0}$	(6.725 0.260 0.120)$\times10^{-2}$	(5.495 0.230 0.028)$\times10^{-2}$
6.00 – 6.54	(9.586 0.087 0.100)$\times10^{-1}$	(5.221 0.210 0.095)$\times10^{-2}$	(5.426 0.240 0.024)$\times10^{-2}$
6.54 – 7.10	(7.549 0.072 0.085)$\times10^{-1}$	(4.258 0.180 0.079)$\times10^{-2}$	(5.599 0.250 0.021)$\times10^{-2}$
7.10 – 7.69	(5.995 0.060 0.069)$\times10^{-1}$	(3.097 0.140 0.059)$\times10^{-2}$	(5.160 0.260 0.018)$\times10^{-2}$
7.69 – 8.30	(4.627 0.050 0.055)$\times10^{-1}$	(2.381 0.120 0.047)$\times10^{-2}$	(5.259 0.280 0.018)$\times10^{-2}$
8.30 – 8.95	(3.655 0.041 0.044)$\times10^{-1}$	(2.143 0.100 0.043)$\times10^{-2}$	(5.715 0.310 0.019)$\times10^{-2}$
8.95 – 9.62	(2.919 0.035 0.036)$\times10^{-1}$	(1.622 0.088 0.033)$\times10^{-2}$	(5.962 0.340 0.020)$\times10^{-2}$
9.62 – 10.32	(2.369 0.030 0.030)$\times10^{-1}$	(1.376 0.077 0.029)$\times10^{-2}$	(5.777 0.350 0.019)$\times10^{-2}$
10.32 – 11.04	(1.862 0.026 0.024)$\times10^{-1}$	(1.141 0.067 0.025)$\times10^{-2}$	(6.068 0.390 0.020)$\times10^{-2}$
11.04 – 11.80	(1.557 0.023 0.020)$\times10^{-1}$	(8.513 0.560 0.190)$\times10^{-3}$	(5.351 0.390 0.017)$\times10^{-2}$
11.80 – 12.59	(1.254 0.020 0.017)$\times10^{-1}$	(7.381 0.500 0.170)$\times10^{-3}$	(5.837 0.430 0.019)$\times10^{-2}$
12.59 – 13.41	(9.959 0.170 0.130)$\times10^{-2}$	(5.328 0.410 0.120)$\times10^{-3}$	(5.464 0.450 0.017)$\times10^{-2}$
13.41 – 14.25	(7.988 0.150 0.110)$\times10^{-2}$	(5.018 0.390 0.120)$\times10^{-3}$	(6.304 0.530 0.020)$\times10^{-2}$
14.25 – 15.14	(6.638 0.130 0.092)$\times10^{-2}$	(4.420 0.340 0.110)$\times10^{-3}$	(7.393 0.600 0.024)$\times10^{-2}$
15.14 – 16.05	(5.654 0.110 0.079)$\times10^{-2}$	(3.663 0.300 0.089)$\times10^{-3}$	(6.077 0.570 0.020)$\times10^{-2}$
16.05 – 17.00	(4.663 0.100 0.066)$\times10^{-2}$	(2.743 0.250 0.068)$\times10^{-3}$	(5.946 0.600 0.020)$\times10^{-2}$
17.00 – 17.98	(3.714 0.086 0.053)$\times10^{-2}$	(2.481 0.230 0.062)$\times10^{-3}$	(6.093 0.660 0.020)$\times10^{-2}$
17.98 – 18.99	(3.145 0.077 0.045)$\times10^{-2}$	(1.768 0.190 0.044)$\times10^{-3}$	(6.030 0.690 0.020)$\times10^{-2}$
18.99 – 20.04	(2.653 0.068 0.039)$\times10^{-2}$	(1.665 0.180 0.042)$\times10^{-3}$	(5.935 0.730 0.020)$\times10^{-2}$
20.04 – 21.13	(2.178 0.060 0.032)$\times10^{-2}$	(1.594 0.170 0.040)$\times10^{-3}$	(6.908 0.830 0.023)$\times10^{-2}$
21.13 – 22.25	(1.709 0.051 0.025)$\times10^{-2}$	(1.348 0.150 0.034)$\times10^{-3}$	(7.944 0.980 0.027)$\times10^{-2}$
22.25 – 23.42	(1.504 0.046 0.023)$\times10^{-2}$	(1.178 0.140 0.030)$\times10^{-3}$	(7.613 0.990 0.026)$\times10^{-2}$
23.42 – 24.62	(1.393 0.043 0.021)$\times10^{-2}$	(7.716 1.100 0.200)$\times10^{-4}$	(5.464 0.840 0.019)$\times10^{-2}$
24.62 – 25.90	(1.182 0.038 0.018)$\times10^{-2}$	(9.597 1.100 0.250)$\times10^{-4}$	(8.336 1.100 0.029)$\times10^{-2}$

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TABLE SM IX – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.975 0.330 0.150)$\times10^{-3}$	(7.322 0.950 0.190)$\times10^{-4}$	(7.845 1.100 0.027)$\times10^{-2}$
27.25 – 28.68	(7.701 0.280 0.120)$\times10^{-3}$	(4.584 0.720 0.120)$\times10^{-4}$	(6.009 1.000 0.021)$\times10^{-2}$
28.68 – 30.21	(6.971 0.260 0.110)$\times10^{-3}$	(4.817 0.710 0.120)$\times10^{-4}$	(7.427 1.200 0.026)$\times10^{-2}$
30.21 – 31.82	(5.672 0.220 0.090)$\times10^{-3}$	(4.542 0.650 0.120)$\times10^{-4}$	(7.661 1.300 0.027)$\times10^{-2}$
31.82 – 33.53	(4.983 0.200 0.080)$\times10^{-3}$	(4.453 0.630 0.110)$\times10^{-4}$	(8.208 1.400 0.029)$\times10^{-2}$
33.53 – 35.36	(4.020 0.170 0.065)$\times10^{-3}$	(2.784 0.470 0.071)$\times10^{-4}$	(7.530 1.400 0.027)$\times10^{-2}$
35.36 – 37.31	(3.611 0.160 0.059)$\times10^{-3}$	(2.564 0.450 0.066)$\times10^{-4}$	(7.462 1.400 0.027)$\times10^{-2}$
37.31 – 39.39	(2.878 0.140 0.048)$\times10^{-3}$	(2.170 0.400 0.056)$\times10^{-4}$	(7.556 1.600 0.028)$\times10^{-2}$
39.39 – 41.61	(2.560 0.130 0.043)$\times10^{-3}$	(2.646 0.420 0.068)$\times10^{-4}$	(10.08 1.800 0.039)$\times10^{-2}$
41.61 – 44.00	(2.220 0.110 0.037)$\times10^{-3}$	(2.328 0.390 0.060)$\times10^{-4}$	(10.62 2.100 0.042)$\times10^{-2}$
44.00 – 46.57	(1.591 0.093 0.027)$\times10^{-3}$	(1.418 0.290 0.036)$\times10^{-4}$	(8.816 2.000 0.036)$\times10^{-2}$
46.57 – 49.33	(1.385 0.085 0.024)$\times10^{-3}$	(1.636 0.300 0.042)$\times10^{-4}$	(10.55 2.300 0.044)$\times10^{-2}$

TABLE SM X: For Bartels Rotation 2434 (December 17, 2011 – January 12, 2012), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.679 0.037 0.045)×10^{1}	(2.274 0.110 0.041)×10^{0}	(8.473 0.460 0.096)×10^{-2}
1.22 – 1.46	(2.242 0.027 0.033)×10^{1}	(1.802 0.079 0.028)×10^{0}	(8.061 0.380 0.088)×10^{-2}
1.46 – 1.72	(1.791 0.018 0.023)×10^{1}	(1.315 0.050 0.018)×10^{0}	(7.266 0.300 0.077)×10^{-2}
1.72 – 2.00	(1.409 0.013 0.016)×10^{1}	(1.024 0.035 0.014)×10^{0}	(7.289 0.270 0.075)×10^{-2}
2.00 – 2.31	(1.111 0.009 0.011)×10^{1}	(7.877 0.250 0.100)×10^{-1}	(7.271 0.250 0.072)×10^{-2}
2.31 – 2.65	(8.719 0.068 0.080)×10^{0}	(5.834 0.180 0.078)×10^{-1}	(6.835 0.230 0.065)×10^{-2}
2.65 – 3.00	(6.760 0.053 0.060)×10^{0}	(4.291 0.140 0.060)×10^{-1}	(6.467 0.220 0.059)×10^{-2}
3.00 – 3.36	(5.316 0.042 0.047)×10^{0}	(3.107 0.110 0.046)×10^{-1}	(5.872 0.220 0.051)×10^{-2}
3.36 – 3.73	(4.178 0.034 0.037)×10^{0}	(2.519 0.088 0.038)×10^{-1}	(6.075 0.230 0.049)×10^{-2}
3.73 – 4.12	(3.295 0.028 0.030)×10^{0}	(1.847 0.069 0.029)×10^{-1}	(5.596 0.230 0.042)×10^{-2}
4.12 – 4.54	(2.570 0.022 0.024)×10^{0}	(1.452 0.055 0.024)×10^{-1}	(5.609 0.230 0.039)×10^{-2}
4.54 – 5.00	(2.064 0.018 0.020)×10^{0}	(1.068 0.043 0.018)×10^{-1}	(5.206 0.230 0.033)×10^{-2}
5.00 – 5.49	(1.584 0.014 0.016)×10^{0}	(8.363 0.350 0.150)×10^{-2}	(5.437 0.240 0.031)×10^{-2}
5.49 – 6.00	(1.221 0.012 0.013)×10^{0}	(6.986 0.290 0.120)×10^{-2}	(5.849 0.260 0.029)×10^{-2}
6.00 – 6.54	(9.495 0.093 0.100)×10^{-1}	(5.017 0.220 0.092)×10^{-2}	(5.238 0.250 0.023)×10^{-2}
6.54 – 7.10	(7.483 0.077 0.084)×10^{-1}	(4.341 0.190 0.081)×10^{-2}	(5.806 0.280 0.022)×10^{-2}
7.10 – 7.69	(5.777 0.063 0.067)×10^{-1}	(3.188 0.160 0.061)×10^{-2}	(5.760 0.300 0.021)×10^{-2}
7.69 – 8.30	(4.652 0.054 0.055)×10^{-1}	(2.495 0.130 0.049)×10^{-2}	(5.596 0.310 0.019)×10^{-2}
8.30 – 8.95	(3.680 0.045 0.045)×10^{-1}	(1.944 0.110 0.039)×10^{-2}	(5.383 0.320 0.018)×10^{-2}
8.95 – 9.62	(2.889 0.038 0.036)×10^{-1}	(1.793 0.100 0.037)×10^{-2}	(6.103 0.370 0.020)×10^{-2}
9.62 – 10.32	(2.262 0.032 0.029)×10^{-1}	(1.263 0.080 0.027)×10^{-2}	(5.782 0.390 0.019)×10^{-2}
10.32 – 11.04	(1.871 0.028 0.024)×10^{-1}	(1.013 0.068 0.022)×10^{-2}	(5.215 0.390 0.017)×10^{-2}
11.04 – 11.80	(1.497 0.024 0.020)×10^{-1}	(8.994 0.610 0.200)×10^{-3}	(5.983 0.450 0.019)×10^{-2}
11.80 – 12.59	(1.196 0.021 0.016)×10^{-1}	(6.460 0.510 0.150)×10^{-3}	(5.308 0.460 0.017)×10^{-2}
12.59 – 13.41	(1.046 0.019 0.014)×10^{-1}	(6.149 0.470 0.140)×10^{-3}	(6.129 0.510 0.020)×10^{-2}
13.41 – 14.25	(7.898 0.160 0.110)×10^{-2}	(4.895 0.400 0.120)×10^{-3}	(6.565 0.590 0.021)×10^{-2}
14.25 – 15.14	(6.586 0.140 0.091)×10^{-2}	(3.448 0.330 0.083)×10^{-3}	(5.205 0.540 0.017)×10^{-2}
15.14 – 16.05	(5.604 0.120 0.078)×10^{-2}	(3.085 0.300 0.075)×10^{-3}	(5.553 0.590 0.018)×10^{-2}
16.05 – 17.00	(4.630 0.110 0.065)×10^{-2}	(3.140 0.290 0.077)×10^{-3}	(6.342 0.670 0.021)×10^{-2}
17.00 – 17.98	(3.782 0.094 0.054)×10^{-2}	(2.750 0.270 0.068)×10^{-3}	(7.758 0.810 0.026)×10^{-2}
17.98 – 18.99	(3.173 0.084 0.046)×10^{-2}	(2.113 0.230 0.053)×10^{-3}	(6.727 0.790 0.022)×10^{-2}
18.99 – 20.04	(2.622 0.073 0.038)×10^{-2}	(1.272 0.170 0.032)×10^{-3}	(4.694 0.690 0.016)×10^{-2}
20.04 – 21.13	(2.115 0.064 0.031)×10^{-2}	(1.120 0.150 0.028)×10^{-3}	(5.746 0.850 0.019)×10^{-2}
21.13 – 22.25	(1.852 0.058 0.028)×10^{-2}	(1.224 0.150 0.031)×10^{-3}	(7.110 0.970 0.024)×10^{-2}
22.25 – 23.42	(1.578 0.051 0.024)×10^{-2}	(1.155 0.140 0.030)×10^{-3}	(7.286 1.000 0.025)×10^{-2}
23.42 – 24.62	(1.293 0.045 0.020)×10^{-2}	(9.505 1.300 0.240)×10^{-4}	(7.729 1.100 0.026)×10^{-2}
24.62 – 25.90	(1.155 0.040 0.018)×10^{-2}	(8.186 1.100 0.210)×10^{-4}	(7.520 1.100 0.026)×10^{-2}

Continued on next page

TABLE SM X – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.302 0.350 0.140)$\times10^{-3}$	(6.670 0.960 0.170)$\times10^{-4}$	(6.926 1.100 0.024)$\times10^{-2}$
27.25 – 28.68	(7.684 0.300 0.120)$\times10^{-3}$	(5.897 0.890 0.150)$\times10^{-4}$	(7.916 1.300 0.027)$\times10^{-2}$
28.68 – 30.21	(6.527 0.270 0.100)$\times10^{-3}$	(7.072 0.900 0.180)$\times10^{-4}$	(11.23 1.600 0.039)$\times10^{-2}$
30.21 – 31.82	(5.700 0.240 0.090)$\times10^{-3}$	(4.144 0.680 0.110)$\times10^{-4}$	(7.149 1.300 0.025)$\times10^{-2}$
31.82 – 33.53	(5.263 0.220 0.084)$\times10^{-3}$	(3.793 0.640 0.097)$\times10^{-4}$	(6.721 1.300 0.024)$\times10^{-2}$
33.53 – 35.36	(4.205 0.190 0.068)$\times10^{-3}$	(3.706 0.610 0.095)$\times10^{-4}$	(7.664 1.500 0.028)$\times10^{-2}$
35.36 – 37.31	(3.304 0.160 0.054)$\times10^{-3}$	(2.929 0.510 0.075)$\times10^{-4}$	(8.341 1.700 0.031)$\times10^{-2}$
37.31 – 39.39	(2.722 0.150 0.045)$\times10^{-3}$	(2.077 0.410 0.053)$\times10^{-4}$	(7.668 1.700 0.029)$\times10^{-2}$
39.39 – 41.61	(2.336 0.130 0.039)$\times10^{-3}$	(1.636 0.360 0.042)$\times10^{-4}$	(8.063 1.900 0.031)$\times10^{-2}$
41.61 – 44.00	(2.036 0.120 0.034)$\times10^{-3}$	(1.449 0.340 0.037)$\times10^{-4}$	(5.916 1.700 0.023)$\times10^{-2}$
44.00 – 46.57	(1.744 0.110 0.030)$\times10^{-3}$	(1.737 0.340 0.045)$\times10^{-4}$	(10.47 2.200 0.042)$\times10^{-2}$
46.57 – 49.33	(1.385 0.091 0.024)$\times10^{-3}$	(1.632 0.320 0.042)$\times10^{-4}$	(11.73 2.600 0.049)$\times10^{-2}$

TABLE SM XI: For Bartels Rotation 2435 (January 13, 2012 – February 08, 2012), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.521 0.034 0.043)×10^{1}	(2.380 0.110 0.043)×10^{0}	(9.433 0.470 0.110)×10^{-2}
1.22 – 1.46	(2.095 0.024 0.031)×10^{1}	(1.858 0.075 0.028)×10^{0}	(8.769 0.380 0.096)×10^{-2}
1.46 – 1.72	(1.678 0.016 0.021)×10^{1}	(1.272 0.046 0.018)×10^{0}	(7.590 0.290 0.081)×10^{-2}
1.72 – 2.00	(1.321 0.011 0.015)×10^{1}	(9.359 0.310 0.130)×10^{-1}	(7.032 0.250 0.072)×10^{-2}
2.00 – 2.31	(1.054 0.008 0.011)×10^{1}	(7.557 0.220 0.100)×10^{-1}	(7.153 0.230 0.071)×10^{-2}
2.31 – 2.65	(8.282 0.060 0.076)×10^{0}	(5.306 0.160 0.071)×10^{-1}	(6.587 0.210 0.063)×10^{-2}
2.65 – 3.00	(6.405 0.046 0.057)×10^{0}	(3.935 0.120 0.055)×10^{-1}	(6.277 0.200 0.057)×10^{-2}
3.00 – 3.36	(5.068 0.037 0.045)×10^{0}	(3.035 0.096 0.045)×10^{-1}	(6.186 0.210 0.053)×10^{-2}
3.36 – 3.73	(4.001 0.030 0.036)×10^{0}	(2.399 0.078 0.037)×10^{-1}	(6.038 0.210 0.049)×10^{-2}
3.73 – 4.12	(3.148 0.024 0.029)×10^{0}	(1.727 0.060 0.027)×10^{-1}	(5.509 0.200 0.041)×10^{-2}
4.12 – 4.54	(2.496 0.020 0.023)×10^{0}	(1.445 0.049 0.024)×10^{-1}	(5.949 0.220 0.041)×10^{-2}
4.54 – 5.00	(1.928 0.016 0.019)×10^{0}	(1.034 0.038 0.017)×10^{-1}	(5.436 0.210 0.034)×10^{-2}
5.00 – 5.49	(1.504 0.012 0.015)×10^{0}	(8.574 0.310 0.150)×10^{-2}	(5.732 0.220 0.033)×10^{-2}
5.49 – 6.00	(1.184 0.010 0.012)×10^{0}	(6.081 0.240 0.110)×10^{-2}	(5.113 0.220 0.026)×10^{-2}
6.00 – 6.54	(9.228 0.082 0.100)×10^{-1}	(5.223 0.200 0.095)×10^{-2}	(5.649 0.240 0.025)×10^{-2}
6.54 – 7.10	(7.223 0.067 0.081)×10^{-1}	(4.037 0.170 0.075)×10^{-2}	(5.738 0.250 0.022)×10^{-2}
7.10 – 7.69	(5.647 0.056 0.065)×10^{-1}	(3.258 0.140 0.062)×10^{-2}	(5.693 0.270 0.020)×10^{-2}
7.69 – 8.30	(4.408 0.047 0.052)×10^{-1}	(2.165 0.110 0.042)×10^{-2}	(4.961 0.270 0.017)×10^{-2}
8.30 – 8.95	(3.542 0.039 0.043)×10^{-1}	(1.752 0.093 0.035)×10^{-2}	(4.833 0.280 0.016)×10^{-2}
8.95 – 9.62	(2.819 0.033 0.035)×10^{-1}	(1.663 0.085 0.034)×10^{-2}	(6.003 0.330 0.020)×10^{-2}
9.62 – 10.32	(2.272 0.029 0.029)×10^{-1}	(1.342 0.074 0.028)×10^{-2}	(5.951 0.350 0.020)×10^{-2}
10.32 – 11.04	(1.768 0.024 0.023)×10^{-1}	(1.076 0.063 0.023)×10^{-2}	(5.821 0.380 0.019)×10^{-2}
11.04 – 11.80	(1.483 0.021 0.019)×10^{-1}	(8.461 0.530 0.190)×10^{-3}	(5.621 0.390 0.018)×10^{-2}
11.80 – 12.59	(1.190 0.018 0.016)×10^{-1}	(7.191 0.470 0.160)×10^{-3}	(6.161 0.430 0.020)×10^{-2}
12.59 – 13.41	(9.726 0.160 0.130)×10^{-2}	(6.009 0.410 0.140)×10^{-3}	(6.212 0.470 0.020)×10^{-2}
13.41 – 14.25	(8.232 0.140 0.110)×10^{-2}	(4.627 0.350 0.110)×10^{-3}	(5.409 0.460 0.017)×10^{-2}
14.25 – 15.14	(6.469 0.120 0.089)×10^{-2}	(3.730 0.300 0.089)×10^{-3}	(5.719 0.510 0.018)×10^{-2}
15.14 – 16.05	(5.297 0.110 0.074)×10^{-2}	(3.345 0.280 0.081)×10^{-3}	(6.313 0.580 0.021)×10^{-2}
16.05 – 17.00	(4.500 0.094 0.064)×10^{-2}	(2.455 0.230 0.060)×10^{-3}	(5.375 0.560 0.018)×10^{-2}
17.00 – 17.98	(3.748 0.083 0.054)×10^{-2}	(2.497 0.220 0.062)×10^{-3}	(6.616 0.670 0.022)×10^{-2}
17.98 – 18.99	(3.030 0.072 0.044)×10^{-2}	(2.140 0.200 0.054)×10^{-3}	(6.565 0.710 0.022)×10^{-2}
18.99 – 20.04	(2.524 0.064 0.037)×10^{-2}	(1.837 0.180 0.046)×10^{-3}	(7.453 0.790 0.025)×10^{-2}
20.04 – 21.13	(2.169 0.057 0.032)×10^{-2}	(1.441 0.150 0.037)×10^{-3}	(6.384 0.760 0.022)×10^{-2}
21.13 – 22.25	(1.841 0.051 0.027)×10^{-2}	(1.326 0.140 0.034)×10^{-3}	(7.236 0.860 0.025)×10^{-2}
22.25 – 23.42	(1.469 0.044 0.022)×10^{-2}	(7.086 1.000 0.180)×10^{-4}	(4.711 0.740 0.016)×10^{-2}
23.42 – 24.62	(1.206 0.038 0.018)×10^{-2}	(9.608 1.100 0.250)×10^{-4}	(8.332 1.100 0.028)×10^{-2}
24.62 – 25.90	(1.058 0.034 0.016)×10^{-2}	(8.397 0.990 0.220)×10^{-4}	(7.538 1.000 0.026)×10^{-2}

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TABLE SM XI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.514 0.310 0.150)$\times10^{-3}$	(5.715 0.800 0.150)$\times10^{-4}$	(6.244 0.930 0.021)$\times10^{-2}$
27.25 – 28.68	(7.872 0.270 0.120)$\times10^{-3}$	(6.653 0.820 0.170)$\times10^{-4}$	(9.116 1.200 0.031)$\times10^{-2}$
28.68 – 30.21	(6.716 0.240 0.110)$\times10^{-3}$	(4.364 0.640 0.110)$\times10^{-4}$	(6.867 1.100 0.024)$\times10^{-2}$
30.21 – 31.82	(5.582 0.210 0.088)$\times10^{-3}$	(3.936 0.600 0.100)$\times10^{-4}$	(7.759 1.300 0.027)$\times10^{-2}$
31.82 – 33.53	(4.647 0.190 0.074)$\times10^{-3}$	(4.489 0.590 0.120)$\times10^{-4}$	(9.181 1.400 0.033)$\times10^{-2}$
33.53 – 35.36	(4.073 0.170 0.066)$\times10^{-3}$	(2.888 0.470 0.074)$\times10^{-4}$	(8.095 1.400 0.029)$\times10^{-2}$
35.36 – 37.31	(3.394 0.150 0.055)$\times10^{-3}$	(3.040 0.470 0.078)$\times10^{-4}$	(9.185 1.600 0.034)$\times10^{-2}$
37.31 – 39.39	(2.704 0.130 0.045)$\times10^{-3}$	(2.866 0.430 0.074)$\times10^{-4}$	(10.17 1.800 0.038)$\times10^{-2}$
39.39 – 41.61	(2.573 0.120 0.043)$\times10^{-3}$	(1.634 0.320 0.042)$\times10^{-4}$	(5.766 1.300 0.022)$\times10^{-2}$
41.61 – 44.00	(2.002 0.100 0.034)$\times10^{-3}$	(1.850 0.320 0.047)$\times10^{-4}$	(10.15 1.900 0.040)$\times10^{-2}$
44.00 – 46.57	(1.515 0.087 0.026)$\times10^{-3}$	(1.107 0.250 0.028)$\times10^{-4}$	(8.470 2.000 0.034)$\times10^{-2}$
46.57 – 49.33	(1.515 0.084 0.026)$\times10^{-3}$	(1.295 0.260 0.033)$\times10^{-4}$	(8.333 1.800 0.035)$\times10^{-2}$

TABLE SM XII: For Bartels Rotation 2436 (February 09, 2012 – March 06, 2012), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.348 0.032 0.040)×10^{1}	(2.268 0.100 0.041)×10^{0}	(9.757 0.480 0.110)×10^{-2}
1.22 – 1.46	(2.017 0.023 0.029)×10^{1}	(1.751 0.070 0.027)×10^{0}	(8.706 0.370 0.096)×10^{-2}
1.46 – 1.72	(1.659 0.016 0.021)×10^{1}	(1.310 0.045 0.018)×10^{0}	(7.711 0.290 0.082)×10^{-2}
1.72 – 2.00	(1.290 0.011 0.014)×10^{1}	(9.845 0.310 0.130)×10^{-1}	(7.631 0.260 0.078)×10^{-2}
2.00 – 2.31	(1.018 0.008 0.010)×10^{1}	(7.228 0.210 0.096)×10^{-1}	(7.267 0.230 0.072)×10^{-2}
2.31 – 2.65	(7.973 0.058 0.073)×10^{0}	(5.387 0.150 0.072)×10^{-1}	(6.652 0.210 0.064)×10^{-2}
2.65 – 3.00	(6.292 0.045 0.056)×10^{0}	(4.007 0.120 0.056)×10^{-1}	(6.509 0.210 0.059)×10^{-2}
3.00 – 3.36	(4.946 0.036 0.044)×10^{0}	(3.131 0.095 0.046)×10^{-1}	(6.403 0.210 0.055)×10^{-2}
3.36 – 3.73	(3.895 0.029 0.035)×10^{0}	(2.317 0.075 0.035)×10^{-1}	(5.941 0.210 0.048)×10^{-2}
3.73 – 4.12	(3.118 0.024 0.028)×10^{0}	(1.664 0.058 0.026)×10^{-1}	(5.449 0.200 0.041)×10^{-2}
4.12 – 4.54	(2.424 0.019 0.023)×10^{0}	(1.352 0.047 0.022)×10^{-1}	(5.611 0.210 0.039)×10^{-2}
4.54 – 5.00	(1.900 0.015 0.018)×10^{0}	(1.041 0.037 0.018)×10^{-1}	(5.599 0.210 0.035)×10^{-2}
5.00 – 5.49	(1.474 0.012 0.015)×10^{0}	(7.550 0.290 0.130)×10^{-2}	(5.043 0.210 0.029)×10^{-2}
5.49 – 6.00	(1.176 0.010 0.012)×10^{0}	(5.830 0.230 0.100)×10^{-2}	(5.071 0.220 0.026)×10^{-2}
6.00 – 6.54	(8.963 0.080 0.097)×10^{-1}	(4.970 0.200 0.091)×10^{-2}	(5.563 0.240 0.025)×10^{-2}
6.54 – 7.10	(7.026 0.066 0.079)×10^{-1}	(3.899 0.160 0.073)×10^{-2}	(5.453 0.250 0.021)×10^{-2}
7.10 – 7.69	(5.532 0.054 0.064)×10^{-1}	(3.145 0.140 0.060)×10^{-2}	(5.680 0.270 0.020)×10^{-2}
7.69 – 8.30	(4.489 0.046 0.053)×10^{-1}	(2.347 0.110 0.046)×10^{-2}	(5.210 0.270 0.018)×10^{-2}
8.30 – 8.95	(3.534 0.039 0.043)×10^{-1}	(1.838 0.093 0.037)×10^{-2}	(5.343 0.290 0.018)×10^{-2}
8.95 – 9.62	(2.782 0.033 0.034)×10^{-1}	(1.582 0.083 0.033)×10^{-2}	(5.656 0.320 0.019)×10^{-2}
9.62 – 10.32	(2.182 0.028 0.028)×10^{-1}	(1.328 0.072 0.028)×10^{-2}	(6.272 0.360 0.021)×10^{-2}
10.32 – 11.04	(1.781 0.024 0.023)×10^{-1}	(9.568 0.580 0.210)×10^{-3}	(5.324 0.360 0.017)×10^{-2}
11.04 – 11.80	(1.451 0.021 0.019)×10^{-1}	(8.147 0.510 0.180)×10^{-3}	(5.736 0.390 0.018)×10^{-2}
11.80 – 12.59	(1.165 0.018 0.015)×10^{-1}	(6.577 0.440 0.150)×10^{-3}	(5.836 0.420 0.019)×10^{-2}
12.59 – 13.41	(9.880 0.160 0.130)×10^{-2}	(5.719 0.400 0.130)×10^{-3}	(5.911 0.450 0.019)×10^{-2}
13.41 – 14.25	(8.129 0.140 0.110)×10^{-2}	(4.344 0.340 0.100)×10^{-3}	(5.516 0.460 0.018)×10^{-2}
14.25 – 15.14	(6.266 0.120 0.087)×10^{-2}	(4.077 0.310 0.098)×10^{-3}	(6.383 0.540 0.021)×10^{-2}
15.14 – 16.05	(5.311 0.110 0.074)×10^{-2}	(3.043 0.260 0.074)×10^{-3}	(5.537 0.530 0.018)×10^{-2}
16.05 – 17.00	(4.421 0.092 0.063)×10^{-2}	(2.815 0.240 0.069)×10^{-3}	(6.577 0.620 0.022)×10^{-2}
17.00 – 17.98	(3.599 0.081 0.051)×10^{-2}	(2.416 0.220 0.060)×10^{-3}	(6.691 0.660 0.022)×10^{-2}
17.98 – 18.99	(3.059 0.072 0.044)×10^{-2}	(1.821 0.180 0.046)×10^{-3}	(5.989 0.660 0.020)×10^{-2}
18.99 – 20.04	(2.502 0.063 0.037)×10^{-2}	(1.512 0.160 0.038)×10^{-3}	(6.452 0.740 0.022)×10^{-2}
20.04 – 21.13	(2.078 0.056 0.031)×10^{-2}	(1.408 0.150 0.036)×10^{-3}	(6.775 0.800 0.023)×10^{-2}
21.13 – 22.25	(1.705 0.049 0.025)×10^{-2}	(9.675 1.200 0.250)×10^{-4}	(5.891 0.800 0.020)×10^{-2}
22.25 – 23.42	(1.490 0.044 0.022)×10^{-2}	(1.185 0.130 0.030)×10^{-3}	(7.894 0.950 0.027)×10^{-2}
23.42 – 24.62	(1.277 0.039 0.019)×10^{-2}	(9.280 1.100 0.240)×10^{-4}	(7.256 0.950 0.025)×10^{-2}
24.62 – 25.90	(1.094 0.034 0.017)×10^{-2}	(7.160 0.910 0.180)×10^{-4}	(6.734 0.940 0.023)×10^{-2}

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TABLE SM XII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.664\ 0.310\ 0.150)\times10^{-3}$	$(8.332\ 0.950\ 0.210)\times10^{-4}$	$(8.956\ 1.100\ 0.031)\times10^{-2}$
27.25 – 28.68	$(7.904\ 0.270\ 0.120)\times10^{-3}$	$(4.930\ 0.700\ 0.130)\times10^{-4}$	$(6.417\ 0.980\ 0.022)\times10^{-2}$
28.68 – 30.21	$(6.618\ 0.240\ 0.100)\times10^{-3}$	$(6.449\ 0.760\ 0.170)\times10^{-4}$	$(10.33\ 1.300\ 0.036)\times10^{-2}$
30.21 – 31.82	$(5.884\ 0.220\ 0.093)\times10^{-3}$	$(3.834\ 0.580\ 0.098)\times10^{-4}$	$(6.242\ 1.100\ 0.022)\times10^{-2}$
31.82 – 33.53	$(4.927\ 0.190\ 0.079)\times10^{-3}$	$(2.908\ 0.480\ 0.075)\times10^{-4}$	$(6.274\ 1.100\ 0.022)\times10^{-2}$
33.53 – 35.36	$(4.005\ 0.160\ 0.065)\times10^{-3}$	$(3.026\ 0.470\ 0.078)\times10^{-4}$	$(8.118\ 1.400\ 0.029)\times10^{-2}$
35.36 – 37.31	$(3.478\ 0.150\ 0.057)\times10^{-3}$	$(2.982\ 0.450\ 0.076)\times10^{-4}$	$(8.841\ 1.500\ 0.032)\times10^{-2}$
37.31 – 39.39	$(2.788\ 0.130\ 0.046)\times10^{-3}$	$(2.291\ 0.380\ 0.059)\times10^{-4}$	$(8.680\ 1.600\ 0.032)\times10^{-2}$
39.39 – 41.61	$(2.533\ 0.120\ 0.042)\times10^{-3}$	$(1.355\ 0.290\ 0.035)\times10^{-4}$	$(5.553\ 1.300\ 0.021)\times10^{-2}$
41.61 – 44.00	$(1.893\ 0.100\ 0.032)\times10^{-3}$	$(1.922\ 0.330\ 0.049)\times10^{-4}$	$(10.05\ 2.000\ 0.040)\times10^{-2}$
44.00 – 46.57	$(1.688\ 0.091\ 0.029)\times10^{-3}$	$(1.909\ 0.320\ 0.049)\times10^{-4}$	$(12.86\ 2.300\ 0.052)\times10^{-2}$
46.57 – 49.33	$(1.418\ 0.081\ 0.025)\times10^{-3}$	$(1.340\ 0.250\ 0.034)\times10^{-4}$	$(7.356\ 1.800\ 0.031)\times10^{-2}$

TABLE SM XIII: For Bartels Rotation 2437 (March 07, 2012 – April 02, 2012), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.961 0.030 0.033)$\times10^{1}$	(1.619 0.092 0.029)$\times10^{0}$	(8.333 0.500 0.094)$\times10^{-2}$
1.22 – 1.46	(1.699 0.022 0.025)$\times10^{1}$	(1.289 0.064 0.020)$\times10^{0}$	(7.571 0.400 0.083)$\times10^{-2}$
1.46 – 1.72	(1.387 0.015 0.018)$\times10^{1}$	(1.112 0.044 0.015)$\times10^{0}$	(7.932 0.340 0.084)$\times10^{-2}$
1.72 – 2.00	(1.092 0.011 0.012)$\times10^{1}$	(7.420 0.280 0.099)$\times10^{-1}$	(6.909 0.280 0.071)$\times10^{-2}$
2.00 – 2.31	(8.703 0.076 0.087)$\times10^{0}$	(5.890 0.200 0.078)$\times10^{-1}$	(6.511 0.250 0.065)$\times10^{-2}$
2.31 – 2.65	(6.939 0.057 0.064)$\times10^{0}$	(4.453 0.150 0.060)$\times10^{-1}$	(6.373 0.230 0.061)$\times10^{-2}$
2.65 – 3.00	(5.491 0.044 0.049)$\times10^{0}$	(3.300 0.110 0.046)$\times10^{-1}$	(5.960 0.220 0.054)$\times10^{-2}$
3.00 – 3.36	(4.363 0.035 0.039)$\times10^{0}$	(2.576 0.090 0.038)$\times10^{-1}$	(5.840 0.220 0.050)$\times10^{-2}$
3.36 – 3.73	(3.451 0.029 0.031)$\times10^{0}$	(2.016 0.072 0.031)$\times10^{-1}$	(5.904 0.230 0.048)$\times10^{-2}$
3.73 – 4.12	(2.752 0.023 0.025)$\times10^{0}$	(1.503 0.057 0.024)$\times10^{-1}$	(5.493 0.220 0.041)$\times10^{-2}$
4.12 – 4.54	(2.170 0.019 0.020)$\times10^{0}$	(1.272 0.047 0.021)$\times10^{-1}$	(5.995 0.230 0.042)$\times10^{-2}$
4.54 – 5.00	(1.730 0.015 0.017)$\times10^{0}$	(9.992 0.380 0.170)$\times10^{-2}$	(5.747 0.230 0.036)$\times10^{-2}$
5.00 – 5.49	(1.338 0.012 0.013)$\times10^{0}$	(7.278 0.290 0.130)$\times10^{-2}$	(5.357 0.230 0.030)$\times10^{-2}$
5.49 – 6.00	(1.060 0.010 0.011)$\times10^{0}$	(5.455 0.230 0.097)$\times10^{-2}$	(5.213 0.240 0.026)$\times10^{-2}$
6.00 – 6.54	(8.365 0.078 0.091)$\times10^{-1}$	(4.202 0.180 0.077)$\times10^{-2}$	(4.957 0.240 0.022)$\times10^{-2}$
6.54 – 7.10	(6.620 0.065 0.075)$\times10^{-1}$	(3.695 0.160 0.069)$\times10^{-2}$	(5.620 0.260 0.022)$\times10^{-2}$
7.10 – 7.69	(5.177 0.053 0.060)$\times10^{-1}$	(2.678 0.130 0.051)$\times10^{-2}$	(5.146 0.270 0.018)$\times10^{-2}$
7.69 – 8.30	(4.111 0.045 0.049)$\times10^{-1}$	(2.186 0.110 0.043)$\times10^{-2}$	(5.264 0.280 0.018)$\times10^{-2}$
8.30 – 8.95	(3.350 0.038 0.041)$\times10^{-1}$	(1.799 0.093 0.036)$\times10^{-2}$	(5.408 0.300 0.018)$\times10^{-2}$
8.95 – 9.62	(2.595 0.032 0.032)$\times10^{-1}$	(1.406 0.079 0.029)$\times10^{-2}$	(5.566 0.330 0.019)$\times10^{-2}$
9.62 – 10.32	(2.104 0.028 0.027)$\times10^{-1}$	(1.115 0.067 0.024)$\times10^{-2}$	(5.232 0.340 0.017)$\times10^{-2}$
10.32 – 11.04	(1.722 0.024 0.022)$\times10^{-1}$	(9.638 0.590 0.210)$\times10^{-3}$	(5.857 0.390 0.019)$\times10^{-2}$
11.04 – 11.80	(1.370 0.020 0.018)$\times10^{-1}$	(8.312 0.530 0.180)$\times10^{-3}$	(5.988 0.420 0.019)$\times10^{-2}$
11.80 – 12.59	(1.146 0.018 0.015)$\times10^{-1}$	(6.138 0.430 0.140)$\times10^{-3}$	(5.503 0.420 0.018)$\times10^{-2}$
12.59 – 13.41	(9.047 0.150 0.120)$\times10^{-2}$	(5.673 0.400 0.130)$\times10^{-3}$	(6.319 0.490 0.020)$\times10^{-2}$
13.41 – 14.25	(7.436 0.140 0.100)$\times10^{-2}$	(4.532 0.350 0.110)$\times10^{-3}$	(6.171 0.510 0.020)$\times10^{-2}$
14.25 – 15.14	(6.231 0.120 0.086)$\times10^{-2}$	(3.945 0.310 0.095)$\times10^{-3}$	(6.600 0.560 0.021)$\times10^{-2}$
15.14 – 16.05	(5.059 0.100 0.071)$\times10^{-2}$	(2.745 0.250 0.067)$\times10^{-3}$	(5.427 0.540 0.018)$\times10^{-2}$
16.05 – 17.00	(4.237 0.091 0.060)$\times10^{-2}$	(2.508 0.230 0.062)$\times10^{-3}$	(5.651 0.580 0.019)$\times10^{-2}$
17.00 – 17.98	(3.581 0.081 0.051)$\times10^{-2}$	(2.284 0.210 0.057)$\times10^{-3}$	(6.464 0.660 0.021)$\times10^{-2}$
17.98 – 18.99	(2.888 0.071 0.042)$\times10^{-2}$	(1.844 0.190 0.046)$\times10^{-3}$	(6.477 0.720 0.022)$\times10^{-2}$
18.99 – 20.04	(2.452 0.063 0.036)$\times10^{-2}$	(1.795 0.180 0.045)$\times10^{-3}$	(7.749 0.820 0.026)$\times10^{-2}$
20.04 – 21.13	(2.080 0.056 0.031)$\times10^{-2}$	(1.185 0.140 0.030)$\times10^{-3}$	(5.660 0.740 0.019)$\times10^{-2}$
21.13 – 22.25	(1.784 0.050 0.027)$\times10^{-2}$	(1.385 0.140 0.035)$\times10^{-3}$	(7.942 0.920 0.027)$\times10^{-2}$
22.25 – 23.42	(1.523 0.044 0.023)$\times10^{-2}$	(1.082 0.120 0.028)$\times10^{-3}$	(7.068 0.890 0.024)$\times10^{-2}$
23.42 – 24.62	(1.261 0.039 0.019)$\times10^{-2}$	(9.343 1.100 0.240)$\times10^{-4}$	(8.206 1.000 0.028)$\times10^{-2}$
24.62 – 25.90	(1.084 0.034 0.017)$\times10^{-2}$	(8.356 0.990 0.210)$\times10^{-4}$	(7.206 0.990 0.025)$\times10^{-2}$

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TABLE SM XIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.213\ 0.310\ 0.140)\times10^{-3}$	$(6.208\ 0.830\ 0.160)\times10^{-4}$	$(6.277\ 0.960\ 0.022)\times10^{-2}$
27.25 – 28.68	$(7.900\ 0.270\ 0.120)\times10^{-3}$	$(5.263\ 0.730\ 0.140)\times10^{-4}$	$(6.681\ 1.000\ 0.023)\times10^{-2}$
28.68 – 30.21	$(6.742\ 0.240\ 0.110)\times10^{-3}$	$(5.191\ 0.690\ 0.130)\times10^{-4}$	$(8.317\ 1.200\ 0.029)\times10^{-2}$
30.21 – 31.82	$(5.346\ 0.210\ 0.085)\times10^{-3}$	$(3.565\ 0.560\ 0.092)\times10^{-4}$	$(6.484\ 1.100\ 0.023)\times10^{-2}$
31.82 – 33.53	$(4.830\ 0.190\ 0.077)\times10^{-3}$	$(3.568\ 0.530\ 0.092)\times10^{-4}$	$(7.699\ 1.300\ 0.027)\times10^{-2}$
33.53 – 35.36	$(3.742\ 0.160\ 0.061)\times10^{-3}$	$(3.470\ 0.510\ 0.089)\times10^{-4}$	$(8.967\ 1.500\ 0.032)\times10^{-2}$
35.36 – 37.31	$(3.208\ 0.140\ 0.052)\times10^{-3}$	$(2.512\ 0.420\ 0.064)\times10^{-4}$	$(7.755\ 1.400\ 0.028)\times10^{-2}$
37.31 – 39.39	$(2.852\ 0.130\ 0.047)\times10^{-3}$	$(1.866\ 0.360\ 0.048)\times10^{-4}$	$(7.001\ 1.500\ 0.026)\times10^{-2}$
39.39 – 41.61	$(2.388\ 0.120\ 0.040)\times10^{-3}$	$(2.668\ 0.400\ 0.068)\times10^{-4}$	$(12.30\ 2.100\ 0.047)\times10^{-2}$
41.61 – 44.00	$(1.969\ 0.100\ 0.033)\times10^{-3}$	$(1.683\ 0.310\ 0.043)\times10^{-4}$	$(7.976\ 1.700\ 0.031)\times10^{-2}$
44.00 – 46.57	$(1.760\ 0.094\ 0.030)\times10^{-3}$	$(1.676\ 0.300\ 0.043)\times10^{-4}$	$(8.713\ 1.800\ 0.035)\times10^{-2}$
46.57 – 49.33	$(1.460\ 0.083\ 0.025)\times10^{-3}$	$(1.735\ 0.300\ 0.045)\times10^{-4}$	$(11.37\ 2.300\ 0.048)\times10^{-2}$

TABLE SM XIV: For Bartels Rotation 2438 (April 03, 2012 – April 29, 2012), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.144 0.030 0.036)×10^{1}	(2.045 0.098 0.037)×10^{0}	(9.587 0.500 0.110)×10^{-2}
1.22 – 1.46	(1.840 0.022 0.027)×10^{1}	(1.552 0.066 0.024)×10^{0}	(8.377 0.380 0.092)×10^{-2}
1.46 – 1.72	(1.525 0.015 0.019)×10^{1}	(1.205 0.043 0.017)×10^{0}	(7.918 0.310 0.084)×10^{-2}
1.72 – 2.00	(1.210 0.010 0.014)×10^{1}	(9.439 0.300 0.130)×10^{-1}	(7.688 0.270 0.079)×10^{-2}
2.00 – 2.31	(9.613 0.076 0.096)×10^{0}	(6.702 0.210 0.089)×10^{-1}	(6.995 0.230 0.070)×10^{-2}
2.31 – 2.65	(7.745 0.057 0.071)×10^{0}	(5.173 0.150 0.070)×10^{-1}	(6.720 0.210 0.064)×10^{-2}
2.65 – 3.00	(6.068 0.044 0.054)×10^{0}	(3.770 0.110 0.053)×10^{-1}	(6.308 0.210 0.057)×10^{-2}
3.00 – 3.36	(4.839 0.036 0.043)×10^{0}	(2.840 0.091 0.042)×10^{-1}	(6.040 0.200 0.052)×10^{-2}
3.36 – 3.73	(3.807 0.029 0.034)×10^{0}	(2.305 0.075 0.035)×10^{-1}	(6.217 0.220 0.050)×10^{-2}
3.73 – 4.12	(3.043 0.024 0.028)×10^{0}	(1.773 0.060 0.028)×10^{-1}	(6.052 0.210 0.046)×10^{-2}
4.12 – 4.54	(2.399 0.019 0.022)×10^{0}	(1.358 0.047 0.022)×10^{-1}	(5.925 0.220 0.041)×10^{-2}
4.54 – 5.00	(1.872 0.015 0.018)×10^{0}	(1.053 0.038 0.018)×10^{-1}	(5.893 0.220 0.037)×10^{-2}
5.00 – 5.49	(1.485 0.012 0.015)×10^{0}	(8.946 0.310 0.160)×10^{-2}	(6.007 0.230 0.034)×10^{-2}
5.49 – 6.00	(1.160 0.010 0.012)×10^{0}	(6.164 0.240 0.110)×10^{-2}	(5.387 0.220 0.027)×10^{-2}
6.00 – 6.54	(9.003 0.080 0.098)×10^{-1}	(4.879 0.190 0.089)×10^{-2}	(5.739 0.240 0.025)×10^{-2}
6.54 – 7.10	(7.069 0.066 0.080)×10^{-1}	(3.740 0.160 0.070)×10^{-2}	(5.164 0.240 0.020)×10^{-2}
7.10 – 7.69	(5.605 0.055 0.065)×10^{-1}	(3.180 0.140 0.061)×10^{-2}	(5.762 0.270 0.021)×10^{-2}
7.69 – 8.30	(4.385 0.046 0.052)×10^{-1}	(2.348 0.110 0.046)×10^{-2}	(5.644 0.280 0.020)×10^{-2}
8.30 – 8.95	(3.495 0.039 0.042)×10^{-1}	(1.820 0.093 0.037)×10^{-2}	(5.255 0.290 0.018)×10^{-2}
8.95 – 9.62	(2.772 0.033 0.034)×10^{-1}	(1.354 0.077 0.028)×10^{-2}	(4.854 0.300 0.016)×10^{-2}
9.62 – 10.32	(2.190 0.028 0.028)×10^{-1}	(1.205 0.069 0.025)×10^{-2}	(5.816 0.350 0.019)×10^{-2}
10.32 – 11.04	(1.789 0.024 0.023)×10^{-1}	(1.030 0.061 0.022)×10^{-2}	(5.597 0.370 0.018)×10^{-2}
11.04 – 11.80	(1.456 0.021 0.019)×10^{-1}	(9.133 0.540 0.200)×10^{-3}	(6.409 0.420 0.021)×10^{-2}
11.80 – 12.59	(1.214 0.018 0.016)×10^{-1}	(6.901 0.460 0.160)×10^{-3}	(6.013 0.430 0.019)×10^{-2}
12.59 – 13.41	(9.324 0.160 0.130)×10^{-2}	(5.462 0.390 0.130)×10^{-3}	(5.868 0.460 0.019)×10^{-2}
13.41 – 14.25	(8.083 0.140 0.110)×10^{-2}	(4.526 0.350 0.110)×10^{-3}	(5.624 0.470 0.018)×10^{-2}
14.25 – 15.14	(6.493 0.120 0.090)×10^{-2}	(3.483 0.290 0.084)×10^{-3}	(5.240 0.480 0.017)×10^{-2}
15.14 – 16.05	(5.212 0.100 0.073)×10^{-2}	(3.433 0.280 0.084)×10^{-3}	(6.614 0.590 0.022)×10^{-2}
16.05 – 17.00	(4.550 0.094 0.064)×10^{-2}	(2.772 0.240 0.068)×10^{-3}	(6.048 0.580 0.020)×10^{-2}
17.00 – 17.98	(3.780 0.083 0.054)×10^{-2}	(2.577 0.230 0.064)×10^{-3}	(7.044 0.680 0.023)×10^{-2}
17.98 – 18.99	(3.090 0.073 0.045)×10^{-2}	(2.071 0.200 0.052)×10^{-3}	(7.111 0.730 0.024)×10^{-2}
18.99 – 20.04	(2.516 0.063 0.037)×10^{-2}	(1.710 0.170 0.043)×10^{-3}	(7.101 0.770 0.024)×10^{-2}
20.04 – 21.13	(2.152 0.057 0.032)×10^{-2}	(1.465 0.160 0.037)×10^{-3}	(6.808 0.800 0.023)×10^{-2}
21.13 – 22.25	(1.738 0.049 0.026)×10^{-2}	(1.485 0.150 0.038)×10^{-3}	(9.031 1.000 0.031)×10^{-2}
22.25 – 23.42	(1.568 0.045 0.024)×10^{-2}	(1.070 0.120 0.027)×10^{-3}	(6.735 0.850 0.023)×10^{-2}
23.42 – 24.62	(1.300 0.040 0.020)×10^{-2}	(7.809 1.000 0.200)×10^{-4}	(5.974 0.860 0.020)×10^{-2}
24.62 – 25.90	(1.134 0.035 0.017)×10^{-2}	(7.768 0.970 0.200)×10^{-4}	(6.615 0.930 0.023)×10^{-2}

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TABLE SM XIV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(8.893 0.300 0.140)$\times10^{-3}$	(6.171 0.820 0.160)$\times10^{-4}$	(6.273 0.990 0.022)$\times10^{-2}$
27.25 – 28.68	(8.023 0.270 0.120)$\times10^{-3}$	(5.402 0.740 0.140)$\times10^{-4}$	(5.775 0.930 0.020)$\times10^{-2}$
28.68 – 30.21	(6.375 0.230 0.100)$\times10^{-3}$	(5.395 0.700 0.140)$\times10^{-4}$	(9.215 1.300 0.032)$\times10^{-2}$
30.21 – 31.82	(5.701 0.210 0.090)$\times10^{-3}$	(5.443 0.680 0.140)$\times10^{-4}$	(8.623 1.300 0.030)$\times10^{-2}$
31.82 – 33.53	(4.493 0.180 0.072)$\times10^{-3}$	(4.077 0.570 0.100)$\times10^{-4}$	(10.20 1.500 0.036)$\times10^{-2}$
33.53 – 35.36	(3.811 0.160 0.062)$\times10^{-3}$	(4.001 0.540 0.100)$\times10^{-4}$	(10.52 1.600 0.038)$\times10^{-2}$
35.36 – 37.31	(3.203 0.140 0.052)$\times10^{-3}$	(3.565 0.500 0.091)$\times10^{-4}$	(10.66 1.700 0.039)$\times10^{-2}$
37.31 – 39.39	(2.964 0.130 0.049)$\times10^{-3}$	(2.934 0.440 0.075)$\times10^{-4}$	(9.126 1.600 0.034)$\times10^{-2}$
39.39 – 41.61	(2.318 0.110 0.039)$\times10^{-3}$	(1.701 0.320 0.044)$\times10^{-4}$	(7.076 1.500 0.027)$\times10^{-2}$
41.61 – 44.00	(1.991 0.100 0.034)$\times10^{-3}$	(1.927 0.330 0.049)$\times10^{-4}$	(9.846 1.900 0.039)$\times10^{-2}$
44.00 – 46.57	(1.674 0.091 0.029)$\times10^{-3}$	(1.346 0.270 0.035)$\times10^{-4}$	(6.976 1.700 0.028)$\times10^{-2}$
46.57 – 49.33	(1.541 0.085 0.027)$\times10^{-3}$	(1.065 0.230 0.027)$\times10^{-4}$	(6.621 1.600 0.028)$\times10^{-2}$

TABLE SM XV: For Bartels Rotation 2439 (April 30, 2012 – May 26, 2012), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.357 0.032 0.040)×10^{1}	(1.865 0.096 0.034)×10^{0}	(8.221 0.440 0.093)×10^{-2}
1.22 – 1.46	(1.979 0.023 0.029)×10^{1}	(1.551 0.067 0.024)×10^{0}	(7.939 0.370 0.087)×10^{-2}
1.46 – 1.72	(1.619 0.016 0.021)×10^{1}	(1.254 0.045 0.017)×10^{0}	(7.785 0.300 0.083)×10^{-2}
1.72 – 2.00	(1.279 0.011 0.014)×10^{1}	(8.989 0.300 0.120)×10^{-1}	(7.083 0.250 0.073)×10^{-2}
2.00 – 2.31	(1.017 0.008 0.010)×10^{1}	(6.959 0.210 0.092)×10^{-1}	(6.866 0.230 0.068)×10^{-2}
2.31 – 2.65	(8.143 0.059 0.075)×10^{0}	(5.059 0.150 0.068)×10^{-1}	(6.292 0.200 0.060)×10^{-2}
2.65 – 3.00	(6.349 0.046 0.056)×10^{0}	(3.876 0.120 0.054)×10^{-1}	(6.114 0.200 0.056)×10^{-2}
3.00 – 3.36	(4.955 0.037 0.044)×10^{0}	(3.014 0.094 0.044)×10^{-1}	(6.081 0.210 0.052)×10^{-2}
3.36 – 3.73	(3.956 0.030 0.035)×10^{0}	(2.333 0.076 0.036)×10^{-1}	(6.078 0.210 0.049)×10^{-2}
3.73 – 4.12	(3.145 0.024 0.029)×10^{0}	(1.795 0.061 0.028)×10^{-1}	(5.806 0.210 0.044)×10^{-2}
4.12 – 4.54	(2.472 0.019 0.023)×10^{0}	(1.391 0.048 0.023)×10^{-1}	(5.627 0.210 0.039)×10^{-2}
4.54 – 5.00	(1.937 0.015 0.019)×10^{0}	(1.013 0.037 0.017)×10^{-1}	(5.269 0.210 0.033)×10^{-2}
5.00 – 5.49	(1.499 0.012 0.015)×10^{0}	(8.306 0.310 0.140)×10^{-2}	(5.657 0.220 0.032)×10^{-2}
5.49 – 6.00	(1.183 0.010 0.012)×10^{0}	(6.702 0.250 0.120)×10^{-2}	(5.813 0.230 0.029)×10^{-2}
6.00 – 6.54	(9.153 0.081 0.100)×10^{-1}	(4.844 0.200 0.088)×10^{-2}	(5.506 0.230 0.024)×10^{-2}
6.54 – 7.10	(7.114 0.066 0.080)×10^{-1}	(3.681 0.160 0.069)×10^{-2}	(5.219 0.240 0.020)×10^{-2}
7.10 – 7.69	(5.751 0.056 0.067)×10^{-1}	(2.985 0.130 0.057)×10^{-2}	(5.133 0.250 0.018)×10^{-2}
7.69 – 8.30	(4.481 0.047 0.053)×10^{-1}	(2.608 0.120 0.051)×10^{-2}	(5.713 0.280 0.020)×10^{-2}
8.30 – 8.95	(3.511 0.039 0.043)×10^{-1}	(1.790 0.093 0.036)×10^{-2}	(5.208 0.290 0.018)×10^{-2}
8.95 – 9.62	(2.792 0.033 0.034)×10^{-1}	(1.640 0.084 0.034)×10^{-2}	(5.896 0.330 0.020)×10^{-2}
9.62 – 10.32	(2.285 0.029 0.029)×10^{-1}	(1.327 0.072 0.028)×10^{-2}	(5.846 0.340 0.019)×10^{-2}
10.32 – 11.04	(1.806 0.024 0.023)×10^{-1}	(1.079 0.062 0.023)×10^{-2}	(5.919 0.380 0.019)×10^{-2}
11.04 – 11.80	(1.471 0.021 0.019)×10^{-1}	(7.672 0.510 0.170)×10^{-3}	(5.072 0.370 0.016)×10^{-2}
11.80 – 12.59	(1.190 0.018 0.016)×10^{-1}	(6.637 0.450 0.150)×10^{-3}	(5.898 0.430 0.019)×10^{-2}
12.59 – 13.41	(9.859 0.160 0.130)×10^{-2}	(5.447 0.390 0.130)×10^{-3}	(5.528 0.440 0.018)×10^{-2}
13.41 – 14.25	(7.880 0.140 0.110)×10^{-2}	(4.098 0.330 0.097)×10^{-3}	(5.068 0.450 0.016)×10^{-2}
14.25 – 15.14	(6.584 0.120 0.091)×10^{-2}	(3.783 0.300 0.091)×10^{-3}	(6.055 0.520 0.020)×10^{-2}
15.14 – 16.05	(5.366 0.110 0.075)×10^{-2}	(3.175 0.270 0.077)×10^{-3}	(6.056 0.560 0.020)×10^{-2}
16.05 – 17.00	(4.453 0.093 0.063)×10^{-2}	(2.732 0.240 0.067)×10^{-3}	(6.258 0.600 0.021)×10^{-2}
17.00 – 17.98	(3.626 0.082 0.052)×10^{-2}	(2.297 0.210 0.057)×10^{-3}	(6.278 0.640 0.021)×10^{-2}
17.98 – 18.99	(3.037 0.072 0.044)×10^{-2}	(2.033 0.190 0.051)×10^{-3}	(6.402 0.690 0.021)×10^{-2}
18.99 – 20.04	(2.538 0.064 0.037)×10^{-2}	(1.632 0.170 0.041)×10^{-3}	(6.117 0.700 0.021)×10^{-2}
20.04 – 21.13	(2.219 0.058 0.033)×10^{-2}	(1.093 0.140 0.028)×10^{-3}	(4.642 0.650 0.016)×10^{-2}
21.13 – 22.25	(1.814 0.051 0.027)×10^{-2}	(9.964 1.200 0.250)×10^{-4}	(6.404 0.820 0.022)×10^{-2}
22.25 – 23.42	(1.559 0.045 0.023)×10^{-2}	(1.063 0.120 0.027)×10^{-3}	(6.815 0.870 0.023)×10^{-2}
23.42 – 24.62	(1.372 0.041 0.021)×10^{-2}	(9.537 1.100 0.240)×10^{-4}	(6.926 0.920 0.024)×10^{-2}
24.62 – 25.90	(1.102 0.035 0.017)×10^{-2}	(8.972 1.000 0.230)×10^{-4}	(8.258 1.100 0.028)×10^{-2}

Continued on next page

TABLE SM XV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.158 0.300 0.140)$\times10^{-3}$	(6.925 0.870 0.180)$\times10^{-4}$	(7.865 1.100 0.027)$\times10^{-2}$
27.25 – 28.68	(8.671 0.280 0.130)$\times10^{-3}$	(5.338 0.730 0.140)$\times10^{-4}$	(6.415 0.960 0.022)$\times10^{-2}$
28.68 – 30.21	(6.732 0.240 0.110)$\times10^{-3}$	(5.752 0.730 0.150)$\times10^{-4}$	(9.111 1.300 0.032)$\times10^{-2}$
30.21 – 31.82	(5.488 0.210 0.087)$\times10^{-3}$	(3.467 0.540 0.089)$\times10^{-4}$	(6.604 1.100 0.023)$\times10^{-2}$
31.82 – 33.53	(4.732 0.190 0.076)$\times10^{-3}$	(4.429 0.600 0.110)$\times10^{-4}$	(9.109 1.400 0.032)$\times10^{-2}$
33.53 – 35.36	(3.838 0.160 0.062)$\times10^{-3}$	(3.455 0.510 0.089)$\times10^{-4}$	(8.744 1.500 0.031)$\times10^{-2}$
35.36 – 37.31	(3.536 0.150 0.058)$\times10^{-3}$	(2.491 0.420 0.064)$\times10^{-4}$	(6.876 1.300 0.025)$\times10^{-2}$
37.31 – 39.39	(2.927 0.130 0.048)$\times10^{-3}$	(3.051 0.450 0.078)$\times10^{-4}$	(10.57 1.800 0.040)$\times10^{-2}$
39.39 – 41.61	(2.429 0.120 0.041)$\times10^{-3}$	(1.813 0.340 0.046)$\times10^{-4}$	(6.711 1.500 0.026)$\times10^{-2}$
41.61 – 44.00	(2.037 0.100 0.034)$\times10^{-3}$	(1.795 0.330 0.046)$\times10^{-4}$	(8.648 1.800 0.034)$\times10^{-2}$
44.00 – 46.57	(1.479 0.086 0.025)$\times10^{-3}$	(1.629 0.290 0.042)$\times10^{-4}$	(11.40 2.300 0.046)$\times10^{-2}$
46.57 – 49.33	(1.248 0.076 0.022)$\times10^{-3}$	(1.150 0.240 0.030)$\times10^{-4}$	(10.78 2.500 0.045)$\times10^{-2}$

TABLE SM XVI: For Bartels Rotation 2440 (May 27, 2012 – June 22, 2012), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.199 0.031 0.037)$\times10^{1}$	(1.912 0.095 0.034)$\times10^{0}$	(8.661 0.460 0.098)$\times10^{-2}$
1.22 – 1.46	(1.818 0.022 0.027)$\times10^{1}$	(1.587 0.067 0.024)$\times10^{0}$	(8.686 0.400 0.095)$\times10^{-2}$
1.46 – 1.72	(1.504 0.015 0.019)$\times10^{1}$	(1.210 0.044 0.017)$\times10^{0}$	(8.084 0.310 0.086)$\times10^{-2}$
1.72 – 2.00	(1.194 0.010 0.013)$\times10^{1}$	(8.598 0.290 0.120)$\times10^{-1}$	(7.296 0.260 0.075)$\times10^{-2}$
2.00 – 2.31	(9.470 0.075 0.095)$\times10^{0}$	(6.678 0.210 0.088)$\times10^{-1}$	(6.978 0.230 0.069)$\times10^{-2}$
2.31 – 2.65	(7.564 0.057 0.069)$\times10^{0}$	(4.846 0.150 0.065)$\times10^{-1}$	(6.526 0.210 0.062)$\times10^{-2}$
2.65 – 3.00	(5.857 0.044 0.052)$\times10^{0}$	(3.485 0.110 0.049)$\times10^{-1}$	(5.947 0.210 0.054)$\times10^{-2}$
3.00 – 3.36	(4.706 0.036 0.042)$\times10^{0}$	(2.950 0.093 0.043)$\times10^{-1}$	(6.394 0.210 0.055)$\times10^{-2}$
3.36 – 3.73	(3.712 0.029 0.033)$\times10^{0}$	(2.077 0.072 0.032)$\times10^{-1}$	(5.812 0.210 0.047)$\times10^{-2}$
3.73 – 4.12	(2.976 0.024 0.027)$\times10^{0}$	(1.675 0.059 0.027)$\times10^{-1}$	(5.519 0.210 0.042)$\times10^{-2}$
4.12 – 4.54	(2.361 0.019 0.022)$\times10^{0}$	(1.253 0.046 0.021)$\times10^{-1}$	(5.385 0.210 0.037)$\times10^{-2}$
4.54 – 5.00	(1.854 0.015 0.018)$\times10^{0}$	(9.970 0.370 0.170)$\times10^{-2}$	(5.295 0.210 0.033)$\times10^{-2}$
5.00 – 5.49	(1.441 0.012 0.014)$\times10^{0}$	(8.000 0.300 0.140)$\times10^{-2}$	(5.527 0.220 0.031)$\times10^{-2}$
5.49 – 6.00	(1.126 0.010 0.012)$\times10^{0}$	(5.962 0.240 0.110)$\times10^{-2}$	(5.414 0.230 0.027)$\times10^{-2}$
6.00 – 6.54	(8.887 0.080 0.097)$\times10^{-1}$	(4.825 0.190 0.088)$\times10^{-2}$	(5.482 0.240 0.024)$\times10^{-2}$
6.54 – 7.10	(6.974 0.066 0.079)$\times10^{-1}$	(3.903 0.160 0.073)$\times10^{-2}$	(5.763 0.260 0.022)$\times10^{-2}$
7.10 – 7.69	(5.499 0.055 0.064)$\times10^{-1}$	(2.816 0.130 0.054)$\times10^{-2}$	(5.328 0.260 0.019)$\times10^{-2}$
7.69 – 8.30	(4.360 0.046 0.052)$\times10^{-1}$	(2.440 0.110 0.048)$\times10^{-2}$	(5.581 0.280 0.019)$\times10^{-2}$
8.30 – 8.95	(3.481 0.039 0.042)$\times10^{-1}$	(1.921 0.096 0.039)$\times10^{-2}$	(5.450 0.300 0.018)$\times10^{-2}$
8.95 – 9.62	(2.770 0.033 0.034)$\times10^{-1}$	(1.395 0.079 0.029)$\times10^{-2}$	(5.218 0.310 0.017)$\times10^{-2}$
9.62 – 10.32	(2.153 0.028 0.027)$\times10^{-1}$	(1.288 0.072 0.027)$\times10^{-2}$	(6.096 0.360 0.020)$\times10^{-2}$
10.32 – 11.04	(1.800 0.025 0.023)$\times10^{-1}$	(9.674 0.590 0.210)$\times10^{-3}$	(5.304 0.350 0.017)$\times10^{-2}$
11.04 – 11.80	(1.449 0.021 0.019)$\times10^{-1}$	(8.008 0.510 0.180)$\times10^{-3}$	(5.549 0.390 0.018)$\times10^{-2}$
11.80 – 12.59	(1.181 0.018 0.016)$\times10^{-1}$	(8.016 0.490 0.180)$\times10^{-3}$	(6.827 0.460 0.022)$\times10^{-2}$
12.59 – 13.41	(9.870 0.160 0.130)$\times10^{-2}$	(5.388 0.390 0.120)$\times10^{-3}$	(5.425 0.430 0.017)$\times10^{-2}$
13.41 – 14.25	(7.938 0.140 0.110)$\times10^{-2}$	(4.699 0.350 0.110)$\times10^{-3}$	(6.007 0.490 0.019)$\times10^{-2}$
14.25 – 15.14	(6.288 0.120 0.087)$\times10^{-2}$	(3.887 0.310 0.093)$\times10^{-3}$	(5.894 0.520 0.019)$\times10^{-2}$
15.14 – 16.05	(5.349 0.110 0.075)$\times10^{-2}$	(3.259 0.270 0.079)$\times10^{-3}$	(5.845 0.550 0.019)$\times10^{-2}$
16.05 – 17.00	(4.400 0.093 0.062)$\times10^{-2}$	(2.716 0.240 0.067)$\times10^{-3}$	(6.398 0.610 0.021)$\times10^{-2}$
17.00 – 17.98	(3.693 0.083 0.053)$\times10^{-2}$	(2.478 0.220 0.062)$\times10^{-3}$	(6.632 0.660 0.022)$\times10^{-2}$
17.98 – 18.99	(3.027 0.073 0.044)$\times10^{-2}$	(2.098 0.200 0.053)$\times10^{-3}$	(7.167 0.740 0.024)$\times10^{-2}$
18.99 – 20.04	(2.521 0.064 0.037)$\times10^{-2}$	(1.793 0.180 0.045)$\times10^{-3}$	(7.177 0.780 0.024)$\times10^{-2}$
20.04 – 21.13	(2.122 0.057 0.031)$\times10^{-2}$	(1.356 0.150 0.034)$\times10^{-3}$	(6.492 0.780 0.022)$\times10^{-2}$
21.13 – 22.25	(1.789 0.051 0.027)$\times10^{-2}$	(1.163 0.130 0.030)$\times10^{-3}$	(6.255 0.810 0.021)$\times10^{-2}$
22.25 – 23.42	(1.485 0.044 0.022)$\times10^{-2}$	(1.127 0.130 0.029)$\times10^{-3}$	(7.580 0.950 0.026)$\times10^{-2}$
23.42 – 24.62	(1.297 0.040 0.020)$\times10^{-2}$	(8.244 1.000 0.210)$\times10^{-4}$	(6.453 0.900 0.022)$\times10^{-2}$
24.62 – 25.90	(1.098 0.035 0.017)$\times10^{-2}$	(7.963 0.980 0.200)$\times10^{-4}$	(7.329 0.990 0.025)$\times10^{-2}$

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TABLE SM XVI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.932 0.320 0.150)$\times10^{-3}$	(6.486 0.850 0.170)$\times10^{-4}$	(7.469 1.000 0.026)$\times10^{-2}$
27.25 – 28.68	(7.339 0.260 0.110)$\times10^{-3}$	(6.082 0.780 0.160)$\times10^{-4}$	(9.412 1.300 0.032)$\times10^{-2}$
28.68 – 30.21	(6.694 0.240 0.110)$\times10^{-3}$	(4.407 0.650 0.110)$\times10^{-4}$	(6.772 1.100 0.024)$\times10^{-2}$
30.21 – 31.82	(5.753 0.220 0.091)$\times10^{-3}$	(4.253 0.620 0.110)$\times10^{-4}$	(8.097 1.300 0.028)$\times10^{-2}$
31.82 – 33.53	(4.688 0.190 0.075)$\times10^{-3}$	(4.307 0.600 0.110)$\times10^{-4}$	(7.884 1.300 0.028)$\times10^{-2}$
33.53 – 35.36	(3.773 0.160 0.061)$\times10^{-3}$	(2.818 0.460 0.072)$\times10^{-4}$	(8.249 1.400 0.030)$\times10^{-2}$
35.36 – 37.31	(3.544 0.150 0.058)$\times10^{-3}$	(2.517 0.420 0.065)$\times10^{-4}$	(7.339 1.400 0.027)$\times10^{-2}$
37.31 – 39.39	(2.674 0.130 0.044)$\times10^{-3}$	(2.773 0.420 0.071)$\times10^{-4}$	(9.866 1.700 0.037)$\times10^{-2}$
39.39 – 41.61	(2.360 0.120 0.039)$\times10^{-3}$	(1.648 0.330 0.042)$\times10^{-4}$	(6.441 1.500 0.025)$\times10^{-2}$
41.61 – 44.00	(1.933 0.100 0.033)$\times10^{-3}$	(2.587 0.380 0.066)$\times10^{-4}$	(11.42 2.100 0.045)$\times10^{-2}$
44.00 – 46.57	(1.660 0.092 0.028)$\times10^{-3}$	(1.638 0.300 0.042)$\times10^{-4}$	(9.112 1.900 0.037)$\times10^{-2}$
46.57 – 49.33	(1.335 0.080 0.023)$\times10^{-3}$	(1.103 0.240 0.028)$\times10^{-4}$	(8.009 2.000 0.034)$\times10^{-2}$

TABLE SM XVII: For Bartels Rotation 2441 (June 23, 2012 – July 19, 2012), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.085 0.029 0.035)×10^{1}	(1.773 0.090 0.032)×10^{0}	(8.427 0.460 0.095)×10^{-2}
1.22 – 1.46	(1.758 0.021 0.026)×10^{1}	(1.425 0.063 0.022)×10^{0}	(8.127 0.390 0.089)×10^{-2}
1.46 – 1.72	(1.442 0.015 0.018)×10^{1}	(1.140 0.043 0.016)×10^{0}	(7.939 0.320 0.084)×10^{-2}
1.72 – 2.00	(1.132 0.010 0.013)×10^{1}	(8.941 0.300 0.120)×10^{-1}	(7.770 0.280 0.080)×10^{-2}
2.00 – 2.31	(9.321 0.076 0.093)×10^{0}	(6.522 0.210 0.086)×10^{-1}	(7.203 0.240 0.072)×10^{-2}
2.31 – 2.65	(7.226 0.056 0.066)×10^{0}	(4.828 0.150 0.065)×10^{-1}	(6.555 0.220 0.063)×10^{-2}
2.65 – 3.00	(5.692 0.044 0.050)×10^{0}	(3.578 0.110 0.050)×10^{-1}	(6.205 0.210 0.056)×10^{-2}
3.00 – 3.36	(4.578 0.035 0.041)×10^{0}	(2.875 0.093 0.042)×10^{-1}	(6.239 0.220 0.054)×10^{-2}
3.36 – 3.73	(3.567 0.028 0.032)×10^{0}	(2.178 0.073 0.033)×10^{-1}	(5.980 0.220 0.048)×10^{-2}
3.73 – 4.12	(2.921 0.023 0.027)×10^{0}	(1.641 0.058 0.026)×10^{-1}	(5.615 0.210 0.042)×10^{-2}
4.12 – 4.54	(2.308 0.019 0.021)×10^{0}	(1.218 0.045 0.020)×10^{-1}	(5.414 0.210 0.038)×10^{-2}
4.54 – 5.00	(1.841 0.015 0.018)×10^{0}	(9.840 0.370 0.170)×10^{-2}	(5.658 0.220 0.036)×10^{-2}
5.00 – 5.49	(1.430 0.012 0.014)×10^{0}	(7.669 0.290 0.130)×10^{-2}	(5.316 0.220 0.030)×10^{-2}
5.49 – 6.00	(1.120 0.010 0.012)×10^{0}	(6.413 0.250 0.110)×10^{-2}	(5.839 0.240 0.029)×10^{-2}
6.00 – 6.54	(8.829 0.079 0.096)×10^{-1}	(4.828 0.200 0.088)×10^{-2}	(5.540 0.240 0.025)×10^{-2}
6.54 – 7.10	(6.826 0.065 0.077)×10^{-1}	(3.595 0.160 0.067)×10^{-2}	(5.152 0.240 0.020)×10^{-2}
7.10 – 7.69	(5.386 0.054 0.062)×10^{-1}	(2.839 0.130 0.054)×10^{-2}	(5.400 0.260 0.019)×10^{-2}
7.69 – 8.30	(4.288 0.046 0.051)×10^{-1}	(2.378 0.110 0.047)×10^{-2}	(5.678 0.290 0.020)×10^{-2}
8.30 – 8.95	(3.426 0.038 0.042)×10^{-1}	(1.684 0.090 0.034)×10^{-2}	(4.854 0.280 0.016)×10^{-2}
8.95 – 9.62	(2.768 0.033 0.034)×10^{-1}	(1.552 0.082 0.032)×10^{-2}	(5.491 0.320 0.018)×10^{-2}
9.62 – 10.32	(2.222 0.028 0.028)×10^{-1}	(1.186 0.069 0.025)×10^{-2}	(5.555 0.340 0.018)×10^{-2}
10.32 – 11.04	(1.771 0.024 0.023)×10^{-1}	(1.023 0.061 0.022)×10^{-2}	(5.533 0.370 0.018)×10^{-2}
11.04 – 11.80	(1.440 0.021 0.019)×10^{-1}	(8.224 0.520 0.180)×10^{-3}	(5.724 0.390 0.018)×10^{-2}
11.80 – 12.59	(1.163 0.018 0.015)×10^{-1}	(6.922 0.460 0.160)×10^{-3}	(6.095 0.440 0.019)×10^{-2}
12.59 – 13.41	(9.924 0.160 0.130)×10^{-2}	(5.874 0.410 0.140)×10^{-3}	(6.037 0.460 0.019)×10^{-2}
13.41 – 14.25	(7.794 0.140 0.110)×10^{-2}	(4.790 0.360 0.110)×10^{-3}	(6.117 0.500 0.020)×10^{-2}
14.25 – 15.14	(6.382 0.120 0.088)×10^{-2}	(4.246 0.320 0.100)×10^{-3}	(7.155 0.580 0.023)×10^{-2}
15.14 – 16.05	(5.390 0.110 0.075)×10^{-2}	(3.091 0.270 0.075)×10^{-3}	(5.745 0.540 0.019)×10^{-2}
16.05 – 17.00	(4.268 0.092 0.060)×10^{-2}	(2.320 0.220 0.057)×10^{-3}	(5.737 0.590 0.019)×10^{-2}
17.00 – 17.98	(3.500 0.080 0.050)×10^{-2}	(2.151 0.210 0.054)×10^{-3}	(6.659 0.680 0.022)×10^{-2}
17.98 – 18.99	(3.021 0.072 0.044)×10^{-2}	(2.049 0.200 0.051)×10^{-3}	(7.396 0.760 0.025)×10^{-2}
18.99 – 20.04	(2.459 0.063 0.036)×10^{-2}	(1.616 0.170 0.041)×10^{-3}	(7.021 0.790 0.024)×10^{-2}
20.04 – 21.13	(2.129 0.057 0.031)×10^{-2}	(1.661 0.170 0.042)×10^{-3}	(8.049 0.880 0.027)×10^{-2}
21.13 – 22.25	(1.864 0.051 0.028)×10^{-2}	(1.246 0.140 0.032)×10^{-3}	(7.278 0.860 0.025)×10^{-2}
22.25 – 23.42	(1.581 0.045 0.024)×10^{-2}	(1.133 0.130 0.029)×10^{-3}	(6.570 0.850 0.022)×10^{-2}
23.42 – 24.62	(1.328 0.040 0.020)×10^{-2}	(7.731 1.000 0.200)×10^{-4}	(5.654 0.820 0.019)×10^{-2}
24.62 – 25.90	(1.042 0.034 0.016)×10^{-2}	(7.690 0.950 0.200)×10^{-4}	(7.390 1.000 0.025)×10^{-2}

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TABLE SM XVII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.601 0.310 0.150)$\times10^{-3}$	(7.099 0.870 0.180)$\times10^{-4}$	(7.388 1.000 0.025)$\times10^{-2}$
27.25 – 28.68	(7.664 0.270 0.120)$\times10^{-3}$	(5.807 0.780 0.150)$\times10^{-4}$	(7.241 1.100 0.025)$\times10^{-2}$
28.68 – 30.21	(6.880 0.240 0.110)$\times10^{-3}$	(4.801 0.660 0.120)$\times10^{-4}$	(6.693 1.000 0.023)$\times10^{-2}$
30.21 – 31.82	(5.464 0.210 0.087)$\times10^{-3}$	(4.938 0.650 0.130)$\times10^{-4}$	(8.905 1.300 0.031)$\times10^{-2}$
31.82 – 33.53	(4.545 0.180 0.073)$\times10^{-3}$	(3.174 0.510 0.081)$\times10^{-4}$	(7.324 1.300 0.026)$\times10^{-2}$
33.53 – 35.36	(3.964 0.170 0.064)$\times10^{-3}$	(2.599 0.440 0.067)$\times10^{-4}$	(6.884 1.300 0.025)$\times10^{-2}$
35.36 – 37.31	(2.909 0.140 0.048)$\times10^{-3}$	(1.934 0.370 0.050)$\times10^{-4}$	(6.589 1.400 0.024)$\times10^{-2}$
37.31 – 39.39	(3.001 0.140 0.050)$\times10^{-3}$	(2.705 0.430 0.069)$\times10^{-4}$	(9.245 1.600 0.035)$\times10^{-2}$
39.39 – 41.61	(2.480 0.120 0.041)$\times10^{-3}$	(1.755 0.330 0.045)$\times10^{-4}$	(7.130 1.500 0.027)$\times10^{-2}$
41.61 – 44.00	(1.977 0.100 0.033)$\times10^{-3}$	(1.935 0.330 0.050)$\times10^{-4}$	(9.001 1.800 0.035)$\times10^{-2}$
44.00 – 46.57	(1.634 0.091 0.028)$\times10^{-3}$	(1.202 0.260 0.031)$\times10^{-4}$	(8.312 1.900 0.034)$\times10^{-2}$
46.57 – 49.33	(1.302 0.078 0.023)$\times10^{-3}$	(1.483 0.270 0.038)$\times10^{-4}$	(11.46 2.400 0.048)$\times10^{-2}$

TABLE SM XVIII: For Bartels Rotation 2442 (July 20, 2012 – August 15, 2012), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.741 0.026 0.030)$\times10^{1}$	(1.594 0.083 0.029)$\times10^{0}$	(8.978 0.510 0.100)$\times10^{-2}$
1.22 – 1.46	(1.519 0.019 0.022)$\times10^{1}$	(1.167 0.055 0.018)$\times10^{0}$	(7.607 0.390 0.083)$\times10^{-2}$
1.46 – 1.72	(1.246 0.013 0.016)$\times10^{1}$	(9.170 0.370 0.130)$\times10^{-1}$	(7.320 0.320 0.078)$\times10^{-2}$
1.72 – 2.00	(9.803 0.093 0.110)$\times10^{0}$	(7.435 0.260 0.100)$\times10^{-1}$	(7.492 0.290 0.077)$\times10^{-2}$
2.00 – 2.31	(7.964 0.068 0.080)$\times10^{0}$	(5.698 0.190 0.075)$\times10^{-1}$	(7.267 0.260 0.072)$\times10^{-2}$
2.31 – 2.65	(6.463 0.051 0.059)$\times10^{0}$	(4.142 0.140 0.056)$\times10^{-1}$	(6.483 0.230 0.062)$\times10^{-2}$
2.65 – 3.00	(5.116 0.040 0.045)$\times10^{0}$	(3.350 0.110 0.047)$\times10^{-1}$	(6.666 0.230 0.061)$\times10^{-2}$
3.00 – 3.36	(4.126 0.033 0.037)$\times10^{0}$	(2.341 0.082 0.034)$\times10^{-1}$	(5.661 0.210 0.049)$\times10^{-2}$
3.36 – 3.73	(3.336 0.027 0.030)$\times10^{0}$	(1.861 0.067 0.028)$\times10^{-1}$	(5.604 0.210 0.045)$\times10^{-2}$
3.73 – 4.12	(2.629 0.022 0.024)$\times10^{0}$	(1.437 0.053 0.023)$\times10^{-1}$	(5.397 0.220 0.041)$\times10^{-2}$
4.12 – 4.54	(2.083 0.018 0.019)$\times10^{0}$	(1.144 0.043 0.019)$\times10^{-1}$	(5.664 0.230 0.039)$\times10^{-2}$
4.54 – 5.00	(1.679 0.014 0.016)$\times10^{0}$	(8.876 0.340 0.150)$\times10^{-2}$	(5.431 0.220 0.034)$\times10^{-2}$
5.00 – 5.49	(1.330 0.012 0.013)$\times10^{0}$	(6.866 0.270 0.120)$\times10^{-2}$	(5.253 0.220 0.030)$\times10^{-2}$
5.49 – 6.00	(1.040 0.009 0.011)$\times10^{0}$	(5.575 0.230 0.099)$\times10^{-2}$	(5.351 0.230 0.027)$\times10^{-2}$
6.00 – 6.54	(8.358 0.077 0.091)$\times10^{-1}$	(4.453 0.190 0.081)$\times10^{-2}$	(5.312 0.240 0.023)$\times10^{-2}$
6.54 – 7.10	(6.513 0.063 0.073)$\times10^{-1}$	(3.374 0.150 0.063)$\times10^{-2}$	(5.467 0.260 0.021)$\times10^{-2}$
7.10 – 7.69	(5.213 0.053 0.060)$\times10^{-1}$	(2.949 0.130 0.056)$\times10^{-2}$	(5.701 0.270 0.020)$\times10^{-2}$
7.69 – 8.30	(4.078 0.044 0.048)$\times10^{-1}$	(2.122 0.110 0.042)$\times10^{-2}$	(5.380 0.290 0.019)$\times10^{-2}$
8.30 – 8.95	(3.315 0.038 0.040)$\times10^{-1}$	(1.770 0.091 0.036)$\times10^{-2}$	(5.335 0.300 0.018)$\times10^{-2}$
8.95 – 9.62	(2.714 0.033 0.033)$\times10^{-1}$	(1.501 0.080 0.031)$\times10^{-2}$	(5.614 0.320 0.019)$\times10^{-2}$
9.62 – 10.32	(2.163 0.028 0.027)$\times10^{-1}$	(1.189 0.068 0.025)$\times10^{-2}$	(5.599 0.340 0.018)$\times10^{-2}$
10.32 – 11.04	(1.715 0.024 0.022)$\times10^{-1}$	(1.014 0.060 0.022)$\times10^{-2}$	(5.611 0.370 0.018)$\times10^{-2}$
11.04 – 11.80	(1.421 0.021 0.019)$\times10^{-1}$	(8.284 0.520 0.180)$\times10^{-3}$	(5.677 0.390 0.018)$\times10^{-2}$
11.80 – 12.59	(1.137 0.018 0.015)$\times10^{-1}$	(7.182 0.460 0.160)$\times10^{-3}$	(6.260 0.440 0.020)$\times10^{-2}$
12.59 – 13.41	(9.160 0.150 0.120)$\times10^{-2}$	(5.565 0.390 0.130)$\times10^{-3}$	(5.922 0.460 0.019)$\times10^{-2}$
13.41 – 14.25	(7.687 0.140 0.100)$\times10^{-2}$	(4.208 0.330 0.099)$\times10^{-3}$	(5.344 0.470 0.017)$\times10^{-2}$
14.25 – 15.14	(6.292 0.120 0.087)$\times10^{-2}$	(3.996 0.310 0.096)$\times10^{-3}$	(6.442 0.540 0.021)$\times10^{-2}$
15.14 – 16.05	(5.329 0.110 0.074)$\times10^{-2}$	(3.229 0.270 0.079)$\times10^{-3}$	(6.063 0.560 0.020)$\times10^{-2}$
16.05 – 17.00	(4.289 0.092 0.061)$\times10^{-2}$	(2.352 0.220 0.058)$\times10^{-3}$	(5.659 0.580 0.019)$\times10^{-2}$
17.00 – 17.98	(3.556 0.081 0.051)$\times10^{-2}$	(2.092 0.200 0.052)$\times10^{-3}$	(5.790 0.620 0.019)$\times10^{-2}$
17.98 – 18.99	(2.981 0.072 0.043)$\times10^{-2}$	(1.509 0.170 0.038)$\times10^{-3}$	(5.252 0.630 0.018)$\times10^{-2}$
18.99 – 20.04	(2.556 0.064 0.037)$\times10^{-2}$	(1.727 0.170 0.044)$\times10^{-3}$	(6.392 0.720 0.021)$\times10^{-2}$
20.04 – 21.13	(1.986 0.055 0.029)$\times10^{-2}$	(1.459 0.150 0.037)$\times10^{-3}$	(7.235 0.850 0.024)$\times10^{-2}$
21.13 – 22.25	(1.791 0.050 0.027)$\times10^{-2}$	(1.061 0.130 0.027)$\times10^{-3}$	(5.568 0.770 0.019)$\times10^{-2}$
22.25 – 23.42	(1.499 0.044 0.023)$\times10^{-2}$	(9.658 1.200 0.250)$\times10^{-4}$	(6.536 0.870 0.022)$\times10^{-2}$
23.42 – 24.62	(1.301 0.040 0.020)$\times10^{-2}$	(8.391 1.100 0.220)$\times10^{-4}$	(6.217 0.890 0.021)$\times10^{-2}$
24.62 – 25.90	(1.072 0.034 0.016)$\times10^{-2}$	(8.091 0.970 0.210)$\times10^{-4}$	(7.903 1.000 0.027)$\times10^{-2}$

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TABLE SM XVIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(8.927\ 0.300\ 0.140)\times10^{-3}$	$(5.796\ 0.790\ 0.150)\times10^{-4}$	$(6.661\ 1.000\ 0.023)\times10^{-2}$
27.25 – 28.68	$(7.858\ 0.270\ 0.120)\times10^{-3}$	$(5.668\ 0.760\ 0.150)\times10^{-4}$	$(6.771\ 1.000\ 0.023)\times10^{-2}$
28.68 – 30.21	$(6.166\ 0.230\ 0.097)\times10^{-3}$	$(4.704\ 0.660\ 0.120)\times10^{-4}$	$(7.446\ 1.200\ 0.026)\times10^{-2}$
30.21 – 31.82	$(5.365\ 0.210\ 0.085)\times10^{-3}$	$(5.293\ 0.680\ 0.140)\times10^{-4}$	$(9.637\ 1.400\ 0.034)\times10^{-2}$
31.82 – 33.53	$(4.314\ 0.180\ 0.069)\times10^{-3}$	$(4.817\ 0.620\ 0.120)\times10^{-4}$	$(10.60\ 1.500\ 0.038)\times10^{-2}$
33.53 – 35.36	$(3.820\ 0.160\ 0.062)\times10^{-3}$	$(3.138\ 0.490\ 0.081)\times10^{-4}$	$(8.705\ 1.500\ 0.031)\times10^{-2}$
35.36 – 37.31	$(3.475\ 0.150\ 0.057)\times10^{-3}$	$(2.839\ 0.450\ 0.073)\times10^{-4}$	$(9.063\ 1.500\ 0.033)\times10^{-2}$
37.31 – 39.39	$(2.846\ 0.130\ 0.047)\times10^{-3}$	$(1.479\ 0.320\ 0.038)\times10^{-4}$	$(6.366\ 1.400\ 0.024)\times10^{-2}$
39.39 – 41.61	$(2.441\ 0.120\ 0.041)\times10^{-3}$	$(1.654\ 0.320\ 0.042)\times10^{-4}$	$(7.073\ 1.500\ 0.027)\times10^{-2}$
41.61 – 44.00	$(1.991\ 0.100\ 0.034)\times10^{-3}$	$(1.471\ 0.290\ 0.038)\times10^{-4}$	$(6.787\ 1.500\ 0.027)\times10^{-2}$
44.00 – 46.57	$(1.895\ 0.098\ 0.032)\times10^{-3}$	$(1.349\ 0.270\ 0.035)\times10^{-4}$	$(7.833\ 1.700\ 0.032)\times10^{-2}$
46.57 – 49.33	$(1.442\ 0.082\ 0.025)\times10^{-3}$	$(1.022\ 0.230\ 0.026)\times10^{-4}$	$(7.224\ 1.800\ 0.030)\times10^{-2}$

TABLE SM XIX: For Bartels Rotation 2443 (August 16, 2012 – September 11, 2012), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	$(1.688\ 0.026\ 0.029)\times10^{1}$	$(1.480\ 0.080\ 0.027)\times10^{0}$	$(8.647\ 0.500\ 0.098)\times10^{-2}$
1.22 – 1.46	$(1.454\ 0.019\ 0.021)\times10^{1}$	$(1.196\ 0.055\ 0.018)\times10^{0}$	$(7.944\ 0.400\ 0.087)\times10^{-2}$
1.46 – 1.72	$(1.199\ 0.013\ 0.015)\times10^{1}$	$(9.629\ 0.370\ 0.130)\times10^{-1}$	$(8.042\ 0.330\ 0.085)\times10^{-2}$
1.72 – 2.00	$(9.854\ 0.090\ 0.110)\times10^{0}$	$(7.096\ 0.250\ 0.095)\times10^{-1}$	$(7.135\ 0.270\ 0.073)\times10^{-2}$
2.00 – 2.31	$(7.862\ 0.066\ 0.079)\times10^{0}$	$(5.534\ 0.180\ 0.073)\times10^{-1}$	$(6.984\ 0.250\ 0.070)\times10^{-2}$
2.31 – 2.65	$(6.440\ 0.050\ 0.059)\times10^{0}$	$(3.924\ 0.130\ 0.053)\times10^{-1}$	$(6.064\ 0.220\ 0.058)\times10^{-2}$
2.65 – 3.00	$(5.150\ 0.040\ 0.046)\times10^{0}$	$(3.242\ 0.100\ 0.045)\times10^{-1}$	$(6.283\ 0.220\ 0.057)\times10^{-2}$
3.00 – 3.36	$(4.174\ 0.033\ 0.037)\times10^{0}$	$(2.493\ 0.083\ 0.037)\times10^{-1}$	$(6.110\ 0.220\ 0.053)\times10^{-2}$
3.36 – 3.73	$(3.395\ 0.027\ 0.030)\times10^{0}$	$(2.092\ 0.070\ 0.032)\times10^{-1}$	$(6.186\ 0.220\ 0.050)\times10^{-2}$
3.73 – 4.12	$(2.669\ 0.022\ 0.024)\times10^{0}$	$(1.615\ 0.056\ 0.026)\times10^{-1}$	$(6.064\ 0.230\ 0.046)\times10^{-2}$
4.12 – 4.54	$(2.200\ 0.018\ 0.020)\times10^{0}$	$(1.182\ 0.044\ 0.019)\times10^{-1}$	$(5.520\ 0.220\ 0.038)\times10^{-2}$
4.54 – 5.00	$(1.733\ 0.014\ 0.017)\times10^{0}$	$(9.364\ 0.350\ 0.160)\times10^{-2}$	$(5.546\ 0.220\ 0.035)\times10^{-2}$
5.00 – 5.49	$(1.359\ 0.012\ 0.014)\times10^{0}$	$(7.278\ 0.280\ 0.130)\times10^{-2}$	$(5.377\ 0.220\ 0.031)\times10^{-2}$
5.49 – 6.00	$(1.078\ 0.009\ 0.011)\times10^{0}$	$(5.168\ 0.220\ 0.092)\times10^{-2}$	$(4.912\ 0.220\ 0.025)\times10^{-2}$
6.00 – 6.54	$(8.555\ 0.077\ 0.093)\times10^{-1}$	$(4.581\ 0.190\ 0.084)\times10^{-2}$	$(5.472\ 0.240\ 0.024)\times10^{-2}$
6.54 – 7.10	$(6.801\ 0.064\ 0.077)\times10^{-1}$	$(3.701\ 0.160\ 0.069)\times10^{-2}$	$(5.677\ 0.250\ 0.022)\times10^{-2}$
7.10 – 7.69	$(5.467\ 0.054\ 0.063)\times10^{-1}$	$(2.825\ 0.130\ 0.054)\times10^{-2}$	$(5.302\ 0.260\ 0.019)\times10^{-2}$
7.69 – 8.30	$(4.248\ 0.045\ 0.050)\times10^{-1}$	$(2.473\ 0.110\ 0.048)\times10^{-2}$	$(5.749\ 0.290\ 0.020)\times10^{-2}$
8.30 – 8.95	$(3.468\ 0.038\ 0.042)\times10^{-1}$	$(1.843\ 0.093\ 0.037)\times10^{-2}$	$(5.559\ 0.290\ 0.019)\times10^{-2}$
8.95 – 9.62	$(2.769\ 0.033\ 0.034)\times10^{-1}$	$(1.487\ 0.080\ 0.031)\times10^{-2}$	$(5.463\ 0.310\ 0.018)\times10^{-2}$
9.62 – 10.32	$(2.162\ 0.028\ 0.027)\times10^{-1}$	$(1.237\ 0.069\ 0.026)\times10^{-2}$	$(5.524\ 0.340\ 0.018)\times10^{-2}$
10.32 – 11.04	$(1.777\ 0.024\ 0.023)\times10^{-1}$	$(9.871\ 0.590\ 0.210)\times10^{-3}$	$(5.855\ 0.380\ 0.019)\times10^{-2}$
11.04 – 11.80	$(1.456\ 0.021\ 0.019)\times10^{-1}$	$(7.591\ 0.500\ 0.170)\times10^{-3}$	$(5.261\ 0.370\ 0.017)\times10^{-2}$
11.80 – 12.59	$(1.184\ 0.018\ 0.016)\times10^{-1}$	$(7.042\ 0.460\ 0.160)\times10^{-3}$	$(6.296\ 0.440\ 0.020)\times10^{-2}$
12.59 – 13.41	$(9.390\ 0.160\ 0.130)\times10^{-2}$	$(5.153\ 0.380\ 0.120)\times10^{-3}$	$(5.375\ 0.430\ 0.017)\times10^{-2}$
13.41 – 14.25	$(8.001\ 0.140\ 0.110)\times10^{-2}$	$(4.677\ 0.350\ 0.110)\times10^{-3}$	$(5.646\ 0.470\ 0.018)\times10^{-2}$
14.25 – 15.14	$(6.530\ 0.120\ 0.090)\times10^{-2}$	$(3.668\ 0.300\ 0.088)\times10^{-3}$	$(5.888\ 0.510\ 0.019)\times10^{-2}$
15.14 – 16.05	$(5.392\ 0.110\ 0.075)\times10^{-2}$	$(3.129\ 0.270\ 0.076)\times10^{-3}$	$(5.769\ 0.540\ 0.019)\times10^{-2}$
16.05 – 17.00	$(4.388\ 0.092\ 0.062)\times10^{-2}$	$(2.858\ 0.240\ 0.070)\times10^{-3}$	$(6.812\ 0.630\ 0.022)\times10^{-2}$
17.00 – 17.98	$(3.626\ 0.081\ 0.052)\times10^{-2}$	$(2.241\ 0.210\ 0.056)\times10^{-3}$	$(6.700\ 0.670\ 0.022)\times10^{-2}$
17.98 – 18.99	$(3.010\ 0.072\ 0.044)\times10^{-2}$	$(2.053\ 0.200\ 0.052)\times10^{-3}$	$(7.188\ 0.740\ 0.024)\times10^{-2}$
18.99 – 20.04	$(2.467\ 0.063\ 0.036)\times10^{-2}$	$(1.606\ 0.170\ 0.041)\times10^{-3}$	$(7.039\ 0.780\ 0.024)\times10^{-2}$
20.04 – 21.13	$(2.103\ 0.056\ 0.031)\times10^{-2}$	$(1.502\ 0.160\ 0.038)\times10^{-3}$	$(6.547\ 0.780\ 0.022)\times10^{-2}$
21.13 – 22.25	$(1.874\ 0.051\ 0.028)\times10^{-2}$	$(1.418\ 0.150\ 0.036)\times10^{-3}$	$(6.555\ 0.810\ 0.022)\times10^{-2}$
22.25 – 23.42	$(1.516\ 0.044\ 0.023)\times10^{-2}$	$(9.800\ 1.200\ 0.250)\times10^{-4}$	$(6.812\ 0.900\ 0.023)\times10^{-2}$
23.42 – 24.62	$(1.300\ 0.040\ 0.020)\times10^{-2}$	$(9.787\ 1.100\ 0.250)\times10^{-4}$	$(7.789\ 0.980\ 0.027)\times10^{-2}$
24.62 – 25.90	$(1.110\ 0.035\ 0.017)\times10^{-2}$	$(8.845\ 1.000\ 0.230)\times10^{-4}$	$(8.233\ 1.000\ 0.028)\times10^{-2}$

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TABLE SM XIX – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.468\ 0.310\ 0.150)\times10^{-3}$	$(7.238\ 0.890\ 0.190)\times10^{-4}$	$(7.198\ 1.000\ 0.025)\times10^{-2}$
27.25 – 28.68	$(8.017\ 0.270\ 0.120)\times10^{-3}$	$(5.915\ 0.780\ 0.150)\times10^{-4}$	$(7.897\ 1.100\ 0.027)\times10^{-2}$
28.68 – 30.21	$(6.686\ 0.240\ 0.100)\times10^{-3}$	$(5.455\ 0.710\ 0.140)\times10^{-4}$	$(8.842\ 1.200\ 0.031)\times10^{-2}$
30.21 – 31.82	$(5.686\ 0.210\ 0.090)\times10^{-3}$	$(4.387\ 0.610\ 0.110)\times10^{-4}$	$(7.247\ 1.200\ 0.025)\times10^{-2}$
31.82 – 33.53	$(4.724\ 0.190\ 0.076)\times10^{-3}$	$(3.896\ 0.550\ 0.100)\times10^{-4}$	$(8.373\ 1.300\ 0.030)\times10^{-2}$
33.53 – 35.36	$(4.040\ 0.170\ 0.065)\times10^{-3}$	$(2.416\ 0.420\ 0.062)\times10^{-4}$	$(6.247\ 1.200\ 0.022)\times10^{-2}$
35.36 – 37.31	$(3.527\ 0.150\ 0.058)\times10^{-3}$	$(2.416\ 0.410\ 0.062)\times10^{-4}$	$(6.650\ 1.300\ 0.024)\times10^{-2}$
37.31 – 39.39	$(2.912\ 0.130\ 0.048)\times10^{-3}$	$(2.175\ 0.380\ 0.056)\times10^{-4}$	$(7.829\ 1.500\ 0.029)\times10^{-2}$
39.39 – 41.61	$(2.373\ 0.120\ 0.040)\times10^{-3}$	$(1.641\ 0.320\ 0.042)\times10^{-4}$	$(7.814\ 1.600\ 0.030)\times10^{-2}$
41.61 – 44.00	$(2.027\ 0.100\ 0.034)\times10^{-3}$	$(1.659\ 0.310\ 0.043)\times10^{-4}$	$(8.875\ 1.800\ 0.035)\times10^{-2}$
44.00 – 46.57	$(1.650\ 0.091\ 0.028)\times10^{-3}$	$(1.365\ 0.270\ 0.035)\times10^{-4}$	$(7.602\ 1.800\ 0.031)\times10^{-2}$
46.57 – 49.33	$(1.421\ 0.082\ 0.025)\times10^{-3}$	$(1.246\ 0.260\ 0.032)\times10^{-4}$	$(8.861\ 2.000\ 0.037)\times10^{-2}$

TABLE SM XX: For Bartels Rotation 2444 (September 12, 2012 – October 08, 2012), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.695 0.026 0.029)$\times10^{1}$	(1.637 0.083 0.029)$\times10^{0}$	(9.826 0.540 0.110)$\times10^{-2}$
1.22 – 1.46	(1.501 0.019 0.022)$\times10^{1}$	(1.269 0.057 0.019)$\times10^{0}$	(8.431 0.410 0.092)$\times10^{-2}$
1.46 – 1.72	(1.239 0.013 0.016)$\times10^{1}$	(9.966 0.380 0.140)$\times10^{-1}$	(8.063 0.330 0.086)$\times10^{-2}$
1.72 – 2.00	(1.013 0.009 0.011)$\times10^{1}$	(7.054 0.250 0.094)$\times10^{-1}$	(6.883 0.270 0.071)$\times10^{-2}$
2.00 – 2.31	(8.313 0.068 0.083)$\times10^{0}$	(5.725 0.180 0.076)$\times10^{-1}$	(6.893 0.240 0.069)$\times10^{-2}$
2.31 – 2.65	(6.837 0.052 0.063)$\times10^{0}$	(4.326 0.140 0.058)$\times10^{-1}$	(6.372 0.220 0.061)$\times10^{-2}$
2.65 – 3.00	(5.410 0.041 0.048)$\times10^{0}$	(3.667 0.110 0.051)$\times10^{-1}$	(6.795 0.220 0.062)$\times10^{-2}$
3.00 – 3.36	(4.422 0.034 0.039)$\times10^{0}$	(2.655 0.086 0.039)$\times10^{-1}$	(6.033 0.210 0.052)$\times10^{-2}$
3.36 – 3.73	(3.534 0.027 0.032)$\times10^{0}$	(2.036 0.069 0.031)$\times10^{-1}$	(5.802 0.210 0.047)$\times10^{-2}$
3.73 – 4.12	(2.826 0.022 0.026)$\times10^{0}$	(1.581 0.056 0.025)$\times10^{-1}$	(5.546 0.210 0.042)$\times10^{-2}$
4.12 – 4.54	(2.249 0.018 0.021)$\times10^{0}$	(1.252 0.045 0.021)$\times10^{-1}$	(5.766 0.220 0.040)$\times10^{-2}$
4.54 – 5.00	(1.789 0.014 0.017)$\times10^{0}$	(9.871 0.360 0.170)$\times10^{-2}$	(5.838 0.220 0.037)$\times10^{-2}$
5.00 – 5.49	(1.437 0.012 0.014)$\times10^{0}$	(7.738 0.290 0.130)$\times10^{-2}$	(5.508 0.220 0.031)$\times10^{-2}$
5.49 – 6.00	(1.127 0.010 0.012)$\times10^{0}$	(6.012 0.230 0.110)$\times10^{-2}$	(5.262 0.220 0.027)$\times10^{-2}$
6.00 – 6.54	(8.826 0.078 0.096)$\times10^{-1}$	(4.891 0.190 0.089)$\times10^{-2}$	(5.624 0.240 0.025)$\times10^{-2}$
6.54 – 7.10	(6.980 0.064 0.079)$\times10^{-1}$	(3.331 0.150 0.062)$\times10^{-2}$	(4.873 0.230 0.019)$\times10^{-2}$
7.10 – 7.69	(5.468 0.053 0.063)$\times10^{-1}$	(2.950 0.130 0.056)$\times10^{-2}$	(5.410 0.260 0.019)$\times10^{-2}$
7.69 – 8.30	(4.406 0.046 0.052)$\times10^{-1}$	(2.445 0.110 0.048)$\times10^{-2}$	(5.635 0.280 0.019)$\times10^{-2}$
8.30 – 8.95	(3.436 0.038 0.042)$\times10^{-1}$	(2.153 0.099 0.043)$\times10^{-2}$	(6.039 0.310 0.020)$\times10^{-2}$
8.95 – 9.62	(2.751 0.032 0.034)$\times10^{-1}$	(1.442 0.079 0.030)$\times10^{-2}$	(5.172 0.310 0.017)$\times10^{-2}$
9.62 – 10.32	(2.239 0.028 0.028)$\times10^{-1}$	(1.156 0.067 0.024)$\times10^{-2}$	(5.155 0.320 0.017)$\times10^{-2}$
10.32 – 11.04	(1.793 0.024 0.023)$\times10^{-1}$	(1.056 0.061 0.023)$\times10^{-2}$	(6.030 0.380 0.020)$\times10^{-2}$
11.04 – 11.80	(1.496 0.021 0.020)$\times10^{-1}$	(7.600 0.490 0.170)$\times10^{-3}$	(4.900 0.350 0.016)$\times10^{-2}$
11.80 – 12.59	(1.208 0.018 0.016)$\times10^{-1}$	(6.371 0.440 0.140)$\times10^{-3}$	(5.523 0.410 0.018)$\times10^{-2}$
12.59 – 13.41	(9.675 0.160 0.130)$\times10^{-2}$	(5.707 0.390 0.130)$\times10^{-3}$	(6.173 0.460 0.020)$\times10^{-2}$
13.41 – 14.25	(7.958 0.140 0.110)$\times10^{-2}$	(4.699 0.350 0.110)$\times10^{-3}$	(5.656 0.470 0.018)$\times10^{-2}$
14.25 – 15.14	(6.415 0.120 0.089)$\times10^{-2}$	(3.550 0.290 0.085)$\times10^{-3}$	(5.322 0.480 0.017)$\times10^{-2}$
15.14 – 16.05	(5.269 0.100 0.074)$\times10^{-2}$	(3.053 0.260 0.074)$\times10^{-3}$	(5.985 0.550 0.019)$\times10^{-2}$
16.05 – 17.00	(4.452 0.092 0.063)$\times10^{-2}$	(2.487 0.230 0.061)$\times10^{-3}$	(5.909 0.580 0.019)$\times10^{-2}$
17.00 – 17.98	(3.723 0.082 0.053)$\times10^{-2}$	(2.621 0.230 0.065)$\times10^{-3}$	(7.765 0.710 0.026)$\times10^{-2}$
17.98 – 18.99	(3.101 0.072 0.045)$\times10^{-2}$	(1.859 0.180 0.047)$\times10^{-3}$	(5.865 0.650 0.020)$\times10^{-2}$
18.99 – 20.04	(2.587 0.064 0.038)$\times10^{-2}$	(2.031 0.190 0.051)$\times10^{-3}$	(7.849 0.790 0.026)$\times10^{-2}$
20.04 – 21.13	(2.153 0.056 0.032)$\times10^{-2}$	(1.523 0.160 0.039)$\times10^{-3}$	(7.344 0.810 0.025)$\times10^{-2}$
21.13 – 22.25	(1.890 0.051 0.028)$\times10^{-2}$	(1.352 0.140 0.034)$\times10^{-3}$	(7.026 0.830 0.024)$\times10^{-2}$
22.25 – 23.42	(1.550 0.045 0.023)$\times10^{-2}$	(1.090 0.120 0.028)$\times10^{-3}$	(7.397 0.910 0.025)$\times10^{-2}$
23.42 – 24.62	(1.281 0.039 0.019)$\times10^{-2}$	(9.270 1.100 0.240)$\times10^{-4}$	(7.449 0.970 0.025)$\times10^{-2}$
24.62 – 25.90	(1.102 0.035 0.017)$\times10^{-2}$	(8.108 0.970 0.210)$\times10^{-4}$	(7.725 0.990 0.026)$\times10^{-2}$

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TABLE SM XX – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.258 0.300 0.140)$\times10^{-3}$	(6.314 0.830 0.160)$\times10^{-4}$	(6.631 0.980 0.023)$\times10^{-2}$
27.25 – 28.68	(7.761 0.270 0.120)$\times10^{-3}$	(4.771 0.700 0.120)$\times10^{-4}$	(5.863 0.970 0.020)$\times10^{-2}$
28.68 – 30.21	(6.676 0.240 0.100)$\times10^{-3}$	(5.460 0.710 0.140)$\times10^{-4}$	(8.597 1.200 0.030)$\times10^{-2}$
30.21 – 31.82	(5.572 0.210 0.088)$\times10^{-3}$	(4.794 0.640 0.120)$\times10^{-4}$	(8.562 1.300 0.030)$\times10^{-2}$
31.82 – 33.53	(4.855 0.190 0.078)$\times10^{-3}$	(4.708 0.610 0.120)$\times10^{-4}$	(9.986 1.400 0.035)$\times10^{-2}$
33.53 – 35.36	(4.068 0.170 0.066)$\times10^{-3}$	(3.083 0.480 0.079)$\times10^{-4}$	(7.241 1.300 0.026)$\times10^{-2}$
35.36 – 37.31	(3.504 0.150 0.057)$\times10^{-3}$	(1.737 0.350 0.045)$\times10^{-4}$	(4.708 1.100 0.017)$\times10^{-2}$
37.31 – 39.39	(2.779 0.130 0.046)$\times10^{-3}$	(2.156 0.380 0.055)$\times10^{-4}$	(8.185 1.600 0.031)$\times10^{-2}$
39.39 – 41.61	(2.259 0.110 0.038)$\times10^{-3}$	(1.907 0.340 0.049)$\times10^{-4}$	(8.120 1.700 0.031)$\times10^{-2}$
41.61 – 44.00	(1.936 0.100 0.033)$\times10^{-3}$	(1.129 0.260 0.029)$\times10^{-4}$	(5.011 1.300 0.020)$\times10^{-2}$
44.00 – 46.57	(1.420 0.084 0.024)$\times10^{-3}$	(1.432 0.270 0.037)$\times10^{-4}$	(8.490 2.000 0.034)$\times10^{-2}$
46.57 – 49.33	(1.523 0.084 0.026)$\times10^{-3}$	(1.137 0.240 0.029)$\times10^{-4}$	(7.090 1.700 0.030)$\times10^{-2}$

TABLE SM XXI: For Bartels Rotation 2445 (October 09, 2012 – November 04, 2012), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.675 0.027 0.028)$\times10^{1}$	(1.433 0.082 0.026)$\times10^{0}$	(8.248 0.510 0.093)$\times10^{-2}$
1.22 – 1.46	(1.451 0.020 0.021)$\times10^{1}$	(1.141 0.057 0.017)$\times10^{0}$	(7.787 0.420 0.085)$\times10^{-2}$
1.46 – 1.72	(1.229 0.014 0.016)$\times10^{1}$	(9.719 0.400 0.140)$\times10^{-1}$	(7.837 0.350 0.083)$\times10^{-2}$
1.72 – 2.00	(1.001 0.010 0.011)$\times10^{1}$	(6.896 0.270 0.092)$\times10^{-1}$	(6.837 0.290 0.070)$\times10^{-2}$
2.00 – 2.31	(8.316 0.073 0.083)$\times10^{0}$	(5.664 0.200 0.075)$\times10^{-1}$	(6.845 0.260 0.068)$\times10^{-2}$
2.31 – 2.65	(6.739 0.055 0.062)$\times10^{0}$	(4.113 0.140 0.055)$\times10^{-1}$	(6.191 0.230 0.059)$\times10^{-2}$
2.65 – 3.00	(5.399 0.043 0.048)$\times10^{0}$	(3.115 0.110 0.044)$\times10^{-1}$	(5.816 0.220 0.053)$\times10^{-2}$
3.00 – 3.36	(4.427 0.035 0.039)$\times10^{0}$	(2.613 0.090 0.038)$\times10^{-1}$	(5.817 0.220 0.050)$\times10^{-2}$
3.36 – 3.73	(3.510 0.029 0.031)$\times10^{0}$	(1.892 0.070 0.029)$\times10^{-1}$	(5.438 0.210 0.044)$\times10^{-2}$
3.73 – 4.12	(2.826 0.023 0.026)$\times10^{0}$	(1.506 0.057 0.024)$\times10^{-1}$	(5.503 0.220 0.041)$\times10^{-2}$
4.12 – 4.54	(2.232 0.019 0.021)$\times10^{0}$	(1.272 0.047 0.021)$\times10^{-1}$	(5.796 0.230 0.040)$\times10^{-2}$
4.54 – 5.00	(1.807 0.015 0.017)$\times10^{0}$	(9.672 0.370 0.160)$\times10^{-2}$	(5.338 0.220 0.034)$\times10^{-2}$
5.00 – 5.49	(1.443 0.012 0.014)$\times10^{0}$	(8.077 0.310 0.140)$\times10^{-2}$	(5.614 0.230 0.032)$\times10^{-2}$
5.49 – 6.00	(1.110 0.010 0.012)$\times10^{0}$	(5.534 0.230 0.099)$\times10^{-2}$	(5.210 0.230 0.026)$\times10^{-2}$
6.00 – 6.54	(8.679 0.080 0.094)$\times10^{-1}$	(4.593 0.190 0.084)$\times10^{-2}$	(5.379 0.240 0.024)$\times10^{-2}$
6.54 – 7.10	(7.103 0.068 0.080)$\times10^{-1}$	(3.776 0.160 0.070)$\times10^{-2}$	(5.344 0.250 0.021)$\times10^{-2}$
7.10 – 7.69	(5.488 0.056 0.064)$\times10^{-1}$	(3.190 0.140 0.061)$\times10^{-2}$	(5.711 0.280 0.020)$\times10^{-2}$
7.69 – 8.30	(4.425 0.047 0.053)$\times10^{-1}$	(2.303 0.110 0.045)$\times10^{-2}$	(5.205 0.280 0.018)$\times10^{-2}$
8.30 – 8.95	(3.483 0.040 0.042)$\times10^{-1}$	(1.863 0.096 0.037)$\times10^{-2}$	(5.367 0.300 0.018)$\times10^{-2}$
8.95 – 9.62	(2.730 0.034 0.034)$\times10^{-1}$	(1.288 0.077 0.027)$\times10^{-2}$	(4.790 0.300 0.016)$\times10^{-2}$
9.62 – 10.32	(2.266 0.029 0.029)$\times10^{-1}$	(1.228 0.071 0.026)$\times10^{-2}$	(5.291 0.330 0.017)$\times10^{-2}$
10.32 – 11.04	(1.807 0.025 0.023)$\times10^{-1}$	(1.021 0.062 0.022)$\times10^{-2}$	(5.662 0.380 0.018)$\times10^{-2}$
11.04 – 11.80	(1.490 0.022 0.019)$\times10^{-1}$	(8.734 0.550 0.190)$\times10^{-3}$	(5.620 0.390 0.018)$\times10^{-2}$
11.80 – 12.59	(1.165 0.018 0.015)$\times10^{-1}$	(6.581 0.460 0.150)$\times10^{-3}$	(5.803 0.440 0.019)$\times10^{-2}$
12.59 – 13.41	(9.465 0.160 0.130)$\times10^{-2}$	(5.305 0.400 0.120)$\times10^{-3}$	(5.675 0.460 0.018)$\times10^{-2}$
13.41 – 14.25	(7.774 0.140 0.110)$\times10^{-2}$	(4.888 0.370 0.120)$\times10^{-3}$	(6.385 0.520 0.020)$\times10^{-2}$
14.25 – 15.14	(6.543 0.120 0.090)$\times10^{-2}$	(4.489 0.340 0.110)$\times10^{-3}$	(6.903 0.570 0.022)$\times10^{-2}$
15.14 – 16.05	(5.330 0.110 0.074)$\times10^{-2}$	(3.125 0.280 0.076)$\times10^{-3}$	(5.721 0.560 0.019)$\times10^{-2}$
16.05 – 17.00	(4.515 0.096 0.064)$\times10^{-2}$	(2.705 0.250 0.067)$\times10^{-3}$	(6.048 0.600 0.020)$\times10^{-2}$
17.00 – 17.98	(3.673 0.084 0.053)$\times10^{-2}$	(2.582 0.230 0.064)$\times10^{-3}$	(7.187 0.700 0.024)$\times10^{-2}$
17.98 – 18.99	(3.032 0.074 0.044)$\times10^{-2}$	(1.889 0.190 0.047)$\times10^{-3}$	(6.475 0.710 0.022)$\times10^{-2}$
18.99 – 20.04	(2.491 0.065 0.036)$\times10^{-2}$	(2.045 0.190 0.052)$\times10^{-3}$	(8.851 0.900 0.030)$\times10^{-2}$
20.04 – 21.13	(2.125 0.058 0.031)$\times10^{-2}$	(1.386 0.150 0.035)$\times10^{-3}$	(6.213 0.780 0.021)$\times10^{-2}$
21.13 – 22.25	(1.689 0.050 0.025)$\times10^{-2}$	(1.304 0.140 0.033)$\times10^{-3}$	(7.533 0.940 0.026)$\times10^{-2}$
22.25 – 23.42	(1.555 0.046 0.023)$\times10^{-2}$	(1.088 0.130 0.028)$\times10^{-3}$	(6.837 0.890 0.023)$\times10^{-2}$
23.42 – 24.62	(1.338 0.041 0.020)$\times10^{-2}$	(8.162 1.100 0.210)$\times10^{-4}$	(6.508 0.910 0.022)$\times10^{-2}$
24.62 – 25.90	(1.093 0.036 0.017)$\times10^{-2}$	(8.631 1.000 0.220)$\times10^{-4}$	(7.697 1.000 0.026)$\times10^{-2}$

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TABLE SM XXI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.119 0.310 0.140)$\times10^{-3}$	(6.394 0.860 0.160)$\times10^{-4}$	(6.744 1.000 0.023)$\times10^{-2}$
27.25 – 28.68	(7.924 0.280 0.120)$\times10^{-3}$	(5.631 0.780 0.140)$\times10^{-4}$	(7.434 1.100 0.026)$\times10^{-2}$
28.68 – 30.21	(6.832 0.250 0.110)$\times10^{-3}$	(4.625 0.680 0.120)$\times10^{-4}$	(6.842 1.100 0.024)$\times10^{-2}$
30.21 – 31.82	(6.043 0.230 0.096)$\times10^{-3}$	(4.472 0.640 0.110)$\times10^{-4}$	(7.232 1.200 0.025)$\times10^{-2}$
31.82 – 33.53	(4.826 0.190 0.077)$\times10^{-3}$	(3.609 0.540 0.093)$\times10^{-4}$	(7.864 1.300 0.028)$\times10^{-2}$
33.53 – 35.36	(3.987 0.170 0.064)$\times10^{-3}$	(2.823 0.470 0.072)$\times10^{-4}$	(7.028 1.300 0.025)$\times10^{-2}$
35.36 – 37.31	(3.321 0.150 0.054)$\times10^{-3}$	(2.650 0.450 0.068)$\times10^{-4}$	(7.344 1.400 0.027)$\times10^{-2}$
37.31 – 39.39	(3.106 0.140 0.051)$\times10^{-3}$	(3.156 0.460 0.081)$\times10^{-4}$	(9.857 1.600 0.037)$\times10^{-2}$
39.39 – 41.61	(2.473 0.120 0.041)$\times10^{-3}$	(2.283 0.390 0.059)$\times10^{-4}$	(8.662 1.700 0.033)$\times10^{-2}$
41.61 – 44.00	(2.085 0.110 0.035)$\times10^{-3}$	(1.816 0.330 0.047)$\times10^{-4}$	(9.311 1.800 0.037)$\times10^{-2}$
44.00 – 46.57	(1.587 0.091 0.027)$\times10^{-3}$	(1.568 0.300 0.040)$\times10^{-4}$	(10.04 2.100 0.041)$\times10^{-2}$
46.57 – 49.33	(1.354 0.082 0.023)$\times10^{-3}$	(1.092 0.240 0.028)$\times10^{-4}$	(7.937 2.000 0.033)$\times10^{-2}$

TABLE SM XXII: For Bartels Rotation 2446 (November 05, 2012 – December 01, 2012), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.702 0.026 0.029)$\times10^{1}$	(1.571 0.083 0.028)$\times10^{0}$	(9.322 0.530 0.110)$\times10^{-2}$
1.22 – 1.46	(1.452 0.019 0.021)$\times10^{1}$	(1.242 0.057 0.019)$\times10^{0}$	(8.510 0.420 0.093)$\times10^{-2}$
1.46 – 1.72	(1.240 0.013 0.016)$\times10^{1}$	(9.251 0.370 0.130)$\times10^{-1}$	(7.266 0.320 0.077)$\times10^{-2}$
1.72 – 2.00	(1.009 0.009 0.011)$\times10^{1}$	(6.937 0.250 0.093)$\times10^{-1}$	(6.990 0.270 0.072)$\times10^{-2}$
2.00 – 2.31	(8.411 0.069 0.084)$\times10^{0}$	(5.376 0.180 0.071)$\times10^{-1}$	(6.363 0.230 0.063)$\times10^{-2}$
2.31 – 2.65	(6.631 0.051 0.061)$\times10^{0}$	(4.387 0.140 0.059)$\times10^{-1}$	(6.771 0.230 0.065)$\times10^{-2}$
2.65 – 3.00	(5.410 0.041 0.048)$\times10^{0}$	(3.291 0.110 0.046)$\times10^{-1}$	(6.218 0.210 0.057)$\times10^{-2}$
3.00 – 3.36	(4.352 0.033 0.039)$\times10^{0}$	(2.523 0.084 0.037)$\times10^{-1}$	(5.868 0.210 0.051)$\times10^{-2}$
3.36 – 3.73	(3.476 0.027 0.031)$\times10^{0}$	(2.027 0.069 0.031)$\times10^{-1}$	(5.887 0.210 0.048)$\times10^{-2}$
3.73 – 4.12	(2.849 0.023 0.026)$\times10^{0}$	(1.604 0.056 0.025)$\times10^{-1}$	(5.787 0.210 0.044)$\times10^{-2}$
4.12 – 4.54	(2.279 0.018 0.021)$\times10^{0}$	(1.288 0.045 0.021)$\times10^{-1}$	(5.656 0.210 0.039)$\times10^{-2}$
4.54 – 5.00	(1.769 0.014 0.017)$\times10^{0}$	(1.024 0.037 0.017)$\times10^{-1}$	(5.886 0.220 0.037)$\times10^{-2}$
5.00 – 5.49	(1.400 0.012 0.014)$\times10^{0}$	(7.851 0.290 0.140)$\times10^{-2}$	(5.496 0.220 0.031)$\times10^{-2}$
5.49 – 6.00	(1.124 0.010 0.012)$\times10^{0}$	(6.030 0.230 0.110)$\times10^{-2}$	(5.211 0.220 0.026)$\times10^{-2}$
6.00 – 6.54	(8.836 0.078 0.096)$\times10^{-1}$	(4.791 0.190 0.088)$\times10^{-2}$	(5.309 0.230 0.023)$\times10^{-2}$
6.54 – 7.10	(7.020 0.065 0.079)$\times10^{-1}$	(3.373 0.150 0.063)$\times10^{-2}$	(4.856 0.230 0.019)$\times10^{-2}$
7.10 – 7.69	(5.484 0.054 0.063)$\times10^{-1}$	(2.829 0.130 0.054)$\times10^{-2}$	(5.040 0.250 0.018)$\times10^{-2}$
7.69 – 8.30	(4.421 0.046 0.052)$\times10^{-1}$	(2.442 0.110 0.048)$\times10^{-2}$	(5.552 0.280 0.019)$\times10^{-2}$
8.30 – 8.95	(3.414 0.038 0.041)$\times10^{-1}$	(1.942 0.095 0.039)$\times10^{-2}$	(5.739 0.300 0.019)$\times10^{-2}$
8.95 – 9.62	(2.771 0.033 0.034)$\times10^{-1}$	(1.542 0.081 0.032)$\times10^{-2}$	(5.592 0.320 0.019)$\times10^{-2}$
9.62 – 10.32	(2.226 0.028 0.028)$\times10^{-1}$	(1.193 0.068 0.025)$\times10^{-2}$	(5.403 0.330 0.018)$\times10^{-2}$
10.32 – 11.04	(1.799 0.024 0.023)$\times10^{-1}$	(9.689 0.580 0.210)$\times10^{-3}$	(5.849 0.370 0.019)$\times10^{-2}$
11.04 – 11.80	(1.484 0.021 0.019)$\times10^{-1}$	(8.073 0.510 0.180)$\times10^{-3}$	(5.452 0.380 0.018)$\times10^{-2}$
11.80 – 12.59	(1.159 0.018 0.015)$\times10^{-1}$	(6.851 0.450 0.160)$\times10^{-3}$	(5.811 0.420 0.019)$\times10^{-2}$
12.59 – 13.41	(9.848 0.160 0.130)$\times10^{-2}$	(5.260 0.380 0.120)$\times10^{-3}$	(5.171 0.420 0.017)$\times10^{-2}$
13.41 – 14.25	(8.092 0.140 0.110)$\times10^{-2}$	(5.025 0.360 0.120)$\times10^{-3}$	(6.062 0.490 0.019)$\times10^{-2}$
14.25 – 15.14	(6.710 0.120 0.093)$\times10^{-2}$	(3.574 0.290 0.086)$\times10^{-3}$	(5.241 0.470 0.017)$\times10^{-2}$
15.14 – 16.05	(5.448 0.110 0.076)$\times10^{-2}$	(3.991 0.300 0.097)$\times10^{-3}$	(7.334 0.610 0.024)$\times10^{-2}$
16.05 – 17.00	(4.404 0.092 0.062)$\times10^{-2}$	(2.638 0.230 0.065)$\times10^{-3}$	(5.792 0.570 0.019)$\times10^{-2}$
17.00 – 17.98	(3.748 0.082 0.054)$\times10^{-2}$	(2.047 0.200 0.051)$\times10^{-3}$	(5.233 0.570 0.017)$\times10^{-2}$
17.98 – 18.99	(3.106 0.073 0.045)$\times10^{-2}$	(2.200 0.200 0.055)$\times10^{-3}$	(7.332 0.730 0.024)$\times10^{-2}$
18.99 – 20.04	(2.606 0.064 0.038)$\times10^{-2}$	(1.899 0.180 0.048)$\times10^{-3}$	(7.083 0.760 0.024)$\times10^{-2}$
20.04 – 21.13	(2.143 0.056 0.032)$\times10^{-2}$	(1.489 0.150 0.038)$\times10^{-3}$	(6.685 0.770 0.023)$\times10^{-2}$
21.13 – 22.25	(1.738 0.049 0.026)$\times10^{-2}$	(1.149 0.130 0.029)$\times10^{-3}$	(6.828 0.850 0.023)$\times10^{-2}$
22.25 – 23.42	(1.582 0.045 0.024)$\times10^{-2}$	(8.495 1.100 0.220)$\times10^{-4}$	(5.572 0.780 0.019)$\times10^{-2}$
23.42 – 24.62	(1.314 0.040 0.020)$\times10^{-2}$	(1.040 0.120 0.027)$\times10^{-3}$	(7.507 0.950 0.026)$\times10^{-2}$
24.62 – 25.90	(1.063 0.034 0.016)$\times10^{-2}$	(6.897 0.910 0.180)$\times10^{-4}$	(6.999 0.990 0.024)$\times10^{-2}$

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TABLE SM XXII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.208\ 0.300\ 0.140)\times10^{-3}$	$(6.796\ 0.850\ 0.170)\times10^{-4}$	$(7.189\ 1.000\ 0.025)\times10^{-2}$
27.25 – 28.68	$(7.889\ 0.270\ 0.120)\times10^{-3}$	$(5.496\ 0.740\ 0.140)\times10^{-4}$	$(6.564\ 1.000\ 0.023)\times10^{-2}$
28.68 – 30.21	$(6.496\ 0.240\ 0.100)\times10^{-3}$	$(7.091\ 0.810\ 0.180)\times10^{-4}$	$(11.28\ 1.500\ 0.039)\times10^{-2}$
30.21 – 31.82	$(6.253\ 0.220\ 0.099)\times10^{-3}$	$(3.720\ 0.570\ 0.095)\times10^{-4}$	$(6.505\ 1.000\ 0.023)\times10^{-2}$
31.82 – 33.53	$(4.740\ 0.190\ 0.076)\times10^{-3}$	$(2.939\ 0.490\ 0.075)\times10^{-4}$	$(6.089\ 1.100\ 0.022)\times10^{-2}$
33.53 – 35.36	$(4.327\ 0.170\ 0.070)\times10^{-3}$	$(3.148\ 0.480\ 0.081)\times10^{-4}$	$(7.951\ 1.300\ 0.029)\times10^{-2}$
35.36 – 37.31	$(3.438\ 0.150\ 0.056)\times10^{-3}$	$(3.609\ 0.500\ 0.093)\times10^{-4}$	$(10.60\ 1.600\ 0.039)\times10^{-2}$
37.31 – 39.39	$(2.912\ 0.130\ 0.048)\times10^{-3}$	$(2.046\ 0.370\ 0.052)\times10^{-4}$	$(7.192\ 1.400\ 0.027)\times10^{-2}$
39.39 – 41.61	$(2.426\ 0.120\ 0.041)\times10^{-3}$	$(2.230\ 0.370\ 0.057)\times10^{-4}$	$(10.25\ 1.800\ 0.039)\times10^{-2}$
41.61 – 44.00	$(2.145\ 0.110\ 0.036)\times10^{-3}$	$(1.655\ 0.310\ 0.042)\times10^{-4}$	$(6.957\ 1.500\ 0.027)\times10^{-2}$
44.00 – 46.57	$(1.699\ 0.092\ 0.029)\times10^{-3}$	$(1.819\ 0.310\ 0.047)\times10^{-4}$	$(11.30\ 2.200\ 0.046)\times10^{-2}$
46.57 – 49.33	$(1.438\ 0.082\ 0.025)\times10^{-3}$	$(1.260\ 0.250\ 0.032)\times10^{-4}$	$(8.884\ 2.000\ 0.037)\times10^{-2}$

TABLE SM XXIII: For Bartels Rotation 2447 (December 02, 2012 – December 28, 2012), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.751 0.026 0.030)×10^{1}	(1.530 0.079 0.027)×10^{0}	(8.417 0.480 0.095)×10^{-2}
1.22 – 1.46	(1.457 0.018 0.021)×10^{1}	(1.294 0.057 0.020)×10^{0}	(8.796 0.420 0.096)×10^{-2}
1.46 – 1.72	(1.248 0.013 0.016)×10^{1}	(1.030 0.038 0.014)×10^{0}	(8.085 0.320 0.086)×10^{-2}
1.72 – 2.00	(1.065 0.009 0.012)×10^{1}	(7.457 0.250 0.100)×10^{-1}	(7.016 0.260 0.072)×10^{-2}
2.00 – 2.31	(8.490 0.068 0.085)×10^{0}	(5.790 0.180 0.077)×10^{-1}	(6.957 0.240 0.069)×10^{-2}
2.31 – 2.65	(6.865 0.051 0.063)×10^{0}	(4.360 0.130 0.059)×10^{-1}	(6.422 0.210 0.061)×10^{-2}
2.65 – 3.00	(5.516 0.041 0.049)×10^{0}	(3.393 0.100 0.047)×10^{-1}	(6.261 0.210 0.057)×10^{-2}
3.00 – 3.36	(4.532 0.034 0.040)×10^{0}	(2.561 0.083 0.038)×10^{-1}	(5.756 0.200 0.050)×10^{-2}
3.36 – 3.73	(3.625 0.027 0.032)×10^{0}	(2.052 0.068 0.031)×10^{-1}	(5.821 0.200 0.047)×10^{-2}
3.73 – 4.12	(2.889 0.022 0.026)×10^{0}	(1.513 0.054 0.024)×10^{-1}	(5.382 0.200 0.040)×10^{-2}
4.12 – 4.54	(2.344 0.018 0.022)×10^{0}	(1.173 0.043 0.019)×10^{-1}	(5.077 0.200 0.035)×10^{-2}
4.54 – 5.00	(1.842 0.015 0.018)×10^{0}	(9.773 0.350 0.170)×10^{-2}	(5.307 0.200 0.034)×10^{-2}
5.00 – 5.49	(1.447 0.012 0.014)×10^{0}	(7.175 0.270 0.120)×10^{-2}	(4.966 0.200 0.028)×10^{-2}
5.49 – 6.00	(1.122 0.010 0.012)×10^{0}	(5.873 0.230 0.100)×10^{-2}	(5.227 0.220 0.026)×10^{-2}
6.00 – 6.54	(9.017 0.078 0.098)×10^{-1}	(4.513 0.180 0.082)×10^{-2}	(5.203 0.220 0.023)×10^{-2}
6.54 – 7.10	(7.112 0.065 0.080)×10^{-1}	(3.853 0.160 0.072)×10^{-2}	(5.436 0.240 0.021)×10^{-2}
7.10 – 7.69	(5.562 0.054 0.064)×10^{-1}	(3.103 0.130 0.059)×10^{-2}	(5.731 0.260 0.020)×10^{-2}
7.69 – 8.30	(4.501 0.046 0.053)×10^{-1}	(2.112 0.110 0.041)×10^{-2}	(4.847 0.250 0.017)×10^{-2}
8.30 – 8.95	(3.466 0.038 0.042)×10^{-1}	(1.857 0.092 0.037)×10^{-2}	(5.582 0.290 0.019)×10^{-2}
8.95 – 9.62	(2.805 0.033 0.035)×10^{-1}	(1.530 0.081 0.032)×10^{-2}	(5.584 0.310 0.019)×10^{-2}
9.62 – 10.32	(2.306 0.028 0.029)×10^{-1}	(1.177 0.067 0.025)×10^{-2}	(5.322 0.320 0.017)×10^{-2}
10.32 – 11.04	(1.797 0.024 0.023)×10^{-1}	(10.000 0.590 0.220)×10^{-3}	(5.520 0.360 0.018)×10^{-2}
11.04 – 11.80	(1.471 0.021 0.019)×10^{-1}	(8.041 0.510 0.180)×10^{-3}	(5.541 0.380 0.018)×10^{-2}
11.80 – 12.59	(1.206 0.018 0.016)×10^{-1}	(6.692 0.440 0.150)×10^{-3}	(5.338 0.400 0.017)×10^{-2}
12.59 – 13.41	(9.667 0.160 0.130)×10^{-2}	(6.414 0.420 0.150)×10^{-3}	(6.615 0.480 0.021)×10^{-2}
13.41 – 14.25	(8.051 0.140 0.110)×10^{-2}	(4.698 0.350 0.110)×10^{-3}	(5.782 0.470 0.019)×10^{-2}
14.25 – 15.14	(6.238 0.120 0.086)×10^{-2}	(4.210 0.310 0.100)×10^{-3}	(6.718 0.550 0.022)×10^{-2}
15.14 – 16.05	(5.143 0.100 0.072)×10^{-2}	(3.418 0.280 0.083)×10^{-3}	(6.844 0.600 0.022)×10^{-2}
16.05 – 17.00	(4.602 0.094 0.065)×10^{-2}	(2.679 0.230 0.066)×10^{-3}	(5.463 0.540 0.018)×10^{-2}
17.00 – 17.98	(3.696 0.081 0.053)×10^{-2}	(2.164 0.210 0.054)×10^{-3}	(5.938 0.620 0.020)×10^{-2}
17.98 – 18.99	(3.123 0.073 0.045)×10^{-2}	(2.188 0.200 0.055)×10^{-3}	(6.962 0.710 0.023)×10^{-2}
18.99 – 20.04	(2.543 0.063 0.037)×10^{-2}	(1.714 0.170 0.043)×10^{-3}	(6.294 0.710 0.021)×10^{-2}
20.04 – 21.13	(2.153 0.056 0.032)×10^{-2}	(1.415 0.150 0.036)×10^{-3}	(6.993 0.790 0.024)×10^{-2}
21.13 – 22.25	(1.839 0.050 0.027)×10^{-2}	(1.225 0.140 0.031)×10^{-3}	(6.660 0.820 0.023)×10^{-2}
22.25 – 23.42	(1.491 0.044 0.022)×10^{-2}	(1.097 0.120 0.028)×10^{-3}	(6.912 0.880 0.024)×10^{-2}
23.42 – 24.62	(1.262 0.039 0.019)×10^{-2}	(7.368 0.970 0.190)×10^{-4}	(5.316 0.810 0.018)×10^{-2}
24.62 – 25.90	(1.094 0.034 0.017)×10^{-2}	(7.400 0.920 0.190)×10^{-4}	(7.163 0.980 0.025)×10^{-2}

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TABLE SM XXIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.471\ 0.310\ 0.150)\times10^{-3}$	$(8.483\ 0.950\ 0.220)\times10^{-4}$	$(8.675\ 1.100\ 0.030)\times10^{-2}$
27.25 – 28.68	$(7.777\ 0.270\ 0.120)\times10^{-3}$	$(5.015\ 0.700\ 0.130)\times10^{-4}$	$(6.725\ 1.000\ 0.023)\times10^{-2}$
28.68 – 30.21	$(6.942\ 0.240\ 0.110)\times10^{-3}$	$(4.482\ 0.640\ 0.120)\times10^{-4}$	$(7.413\ 1.100\ 0.026)\times10^{-2}$
30.21 – 31.82	$(5.642\ 0.210\ 0.089)\times10^{-3}$	$(4.343\ 0.610\ 0.110)\times10^{-4}$	$(8.065\ 1.300\ 0.028)\times10^{-2}$
31.82 – 33.53	$(4.621\ 0.180\ 0.074)\times10^{-3}$	$(3.127\ 0.510\ 0.080)\times10^{-4}$	$(7.952\ 1.300\ 0.028)\times10^{-2}$
33.53 – 35.36	$(3.878\ 0.160\ 0.063)\times10^{-3}$	$(3.297\ 0.490\ 0.085)\times10^{-4}$	$(8.138\ 1.400\ 0.029)\times10^{-2}$
35.36 – 37.31	$(3.544\ 0.150\ 0.058)\times10^{-3}$	$(3.120\ 0.470\ 0.080)\times10^{-4}$	$(8.028\ 1.400\ 0.029)\times10^{-2}$
37.31 – 39.39	$(2.910\ 0.130\ 0.048)\times10^{-3}$	$(2.811\ 0.430\ 0.072)\times10^{-4}$	$(9.334\ 1.600\ 0.035)\times10^{-2}$
39.39 – 41.61	$(2.307\ 0.110\ 0.039)\times10^{-3}$	$(1.843\ 0.330\ 0.047)\times10^{-4}$	$(8.824\ 1.700\ 0.034)\times10^{-2}$
41.61 – 44.00	$(2.030\ 0.100\ 0.034)\times10^{-3}$	$(1.295\ 0.280\ 0.033)\times10^{-4}$	$(7.234\ 1.600\ 0.028)\times10^{-2}$
44.00 – 46.57	$(1.582\ 0.088\ 0.027)\times10^{-3}$	$(8.690\ 2.200\ 0.220)\times10^{-5}$	$(6.355\ 1.700\ 0.026)\times10^{-2}$
46.57 – 49.33	$(1.287\ 0.077\ 0.022)\times10^{-3}$	$(1.467\ 0.270\ 0.038)\times10^{-4}$	$(11.08\ 2.300\ 0.047)\times10^{-2}$

TABLE SM XXIV: For Bartels Rotation 2448 (December 29, 2012 – January 24, 2013), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.743 0.026 0.030)×10^{1}	(1.642 0.084 0.030)×10^{0}	(9.190 0.520 0.100)×10^{-2}
1.22 – 1.46	(1.521 0.019 0.022)×10^{1}	(1.277 0.058 0.020)×10^{0}	(8.490 0.410 0.093)×10^{-2}
1.46 – 1.72	(1.329 0.013 0.017)×10^{1}	(9.899 0.380 0.140)×10^{-1}	(7.432 0.310 0.079)×10^{-2}
1.72 – 2.00	(1.062 0.009 0.012)×10^{1}	(7.746 0.270 0.100)×10^{-1}	(7.395 0.270 0.076)×10^{-2}
2.00 – 2.31	(8.703 0.070 0.087)×10^{0}	(6.227 0.190 0.082)×10^{-1}	(7.110 0.240 0.071)×10^{-2}
2.31 – 2.65	(7.131 0.053 0.065)×10^{0}	(4.556 0.140 0.061)×10^{-1}	(6.339 0.210 0.061)×10^{-2}
2.65 – 3.00	(5.613 0.042 0.050)×10^{0}	(3.538 0.110 0.049)×10^{-1}	(6.211 0.210 0.057)×10^{-2}
3.00 – 3.36	(4.567 0.034 0.040)×10^{0}	(2.709 0.087 0.040)×10^{-1}	(5.972 0.210 0.052)×10^{-2}
3.36 – 3.73	(3.604 0.028 0.032)×10^{0}	(2.218 0.072 0.034)×10^{-1}	(6.292 0.220 0.051)×10^{-2}
3.73 – 4.12	(2.976 0.023 0.027)×10^{0}	(1.730 0.058 0.027)×10^{-1}	(5.994 0.210 0.045)×10^{-2}
4.12 – 4.54	(2.345 0.018 0.022)×10^{0}	(1.369 0.047 0.022)×10^{-1}	(5.930 0.220 0.041)×10^{-2}
4.54 – 5.00	(1.877 0.015 0.018)×10^{0}	(9.869 0.360 0.170)×10^{-2}	(5.412 0.210 0.034)×10^{-2}
5.00 – 5.49	(1.458 0.012 0.015)×10^{0}	(7.813 0.290 0.140)×10^{-2}	(5.532 0.220 0.031)×10^{-2}
5.49 – 6.00	(1.159 0.010 0.012)×10^{0}	(6.355 0.240 0.110)×10^{-2}	(5.501 0.220 0.028)×10^{-2}
6.00 – 6.54	(9.058 0.079 0.098)×10^{-1}	(5.065 0.190 0.093)×10^{-2}	(5.489 0.230 0.024)×10^{-2}
6.54 – 7.10	(7.228 0.066 0.081)×10^{-1}	(3.935 0.160 0.073)×10^{-2}	(5.325 0.240 0.020)×10^{-2}
7.10 – 7.69	(5.651 0.054 0.065)×10^{-1}	(2.919 0.130 0.056)×10^{-2}	(5.188 0.250 0.018)×10^{-2}
7.69 – 8.30	(4.523 0.046 0.054)×10^{-1}	(2.333 0.110 0.046)×10^{-2}	(5.028 0.260 0.017)×10^{-2}
8.30 – 8.95	(3.520 0.038 0.043)×10^{-1}	(2.087 0.098 0.042)×10^{-2}	(5.752 0.300 0.019)×10^{-2}
8.95 – 9.62	(2.848 0.033 0.035)×10^{-1}	(1.544 0.081 0.032)×10^{-2}	(5.528 0.310 0.018)×10^{-2}
9.62 – 10.32	(2.248 0.028 0.028)×10^{-1}	(1.357 0.072 0.029)×10^{-2}	(6.139 0.350 0.020)×10^{-2}
10.32 – 11.04	(1.799 0.024 0.023)×10^{-1}	(1.023 0.060 0.022)×10^{-2}	(5.830 0.370 0.019)×10^{-2}
11.04 – 11.80	(1.503 0.021 0.020)×10^{-1}	(8.211 0.510 0.180)×10^{-3}	(5.568 0.380 0.018)×10^{-2}
11.80 – 12.59	(1.217 0.018 0.016)×10^{-1}	(6.937 0.450 0.160)×10^{-3}	(5.514 0.400 0.018)×10^{-2}
12.59 – 13.41	(9.772 0.160 0.130)×10^{-2}	(5.881 0.400 0.140)×10^{-3}	(6.147 0.460 0.020)×10^{-2}
13.41 – 14.25	(8.087 0.140 0.110)×10^{-2}	(5.258 0.370 0.120)×10^{-3}	(6.764 0.510 0.022)×10^{-2}
14.25 – 15.14	(6.653 0.120 0.092)×10^{-2}	(3.679 0.300 0.088)×10^{-3}	(5.783 0.500 0.019)×10^{-2}
15.14 – 16.05	(5.518 0.110 0.077)×10^{-2}	(3.085 0.260 0.075)×10^{-3}	(5.721 0.530 0.019)×10^{-2}
16.05 – 17.00	(4.447 0.092 0.063)×10^{-2}	(2.875 0.240 0.071)×10^{-3}	(6.634 0.610 0.022)×10^{-2}
17.00 – 17.98	(3.640 0.081 0.052)×10^{-2}	(2.212 0.210 0.055)×10^{-3}	(6.115 0.630 0.020)×10^{-2}
17.98 – 18.99	(3.023 0.071 0.044)×10^{-2}	(1.849 0.180 0.046)×10^{-3}	(6.310 0.690 0.021)×10^{-2}
18.99 – 20.04	(2.559 0.064 0.037)×10^{-2}	(1.966 0.180 0.050)×10^{-3}	(7.251 0.770 0.024)×10^{-2}
20.04 – 21.13	(2.188 0.057 0.032)×10^{-2}	(1.608 0.160 0.041)×10^{-3}	(7.806 0.840 0.026)×10^{-2}
21.13 – 22.25	(1.840 0.050 0.027)×10^{-2}	(1.073 0.130 0.027)×10^{-3}	(6.039 0.780 0.021)×10^{-2}
22.25 – 23.42	(1.491 0.043 0.022)×10^{-2}	(9.654 1.100 0.250)×10^{-4}	(5.943 0.810 0.020)×10^{-2}
23.42 – 24.62	(1.348 0.040 0.020)×10^{-2}	(7.863 1.000 0.200)×10^{-4}	(5.821 0.840 0.020)×10^{-2}
24.62 – 25.90	(1.149 0.035 0.018)×10^{-2}	(7.568 0.940 0.190)×10^{-4}	(6.493 0.900 0.022)×10^{-2}

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TABLE SM XXIV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.700\ 0.310\ 0.150)\times10^{-3}$	$(6.497\ 0.840\ 0.170)\times10^{-4}$	$(6.878\ 0.970\ 0.024)\times10^{-2}$
27.25 – 28.68	$(7.555\ 0.260\ 0.120)\times10^{-3}$	$(5.771\ 0.760\ 0.150)\times10^{-4}$	$(7.608\ 1.100\ 0.026)\times10^{-2}$
28.68 – 30.21	$(6.197\ 0.230\ 0.097)\times10^{-3}$	$(5.583\ 0.720\ 0.140)\times10^{-4}$	$(8.429\ 1.300\ 0.029)\times10^{-2}$
30.21 – 31.82	$(5.864\ 0.210\ 0.093)\times10^{-3}$	$(4.190\ 0.600\ 0.110)\times10^{-4}$	$(7.138\ 1.100\ 0.025)\times10^{-2}$
31.82 – 33.53	$(4.738\ 0.190\ 0.076)\times10^{-3}$	$(3.863\ 0.550\ 0.099)\times10^{-4}$	$(8.123\ 1.300\ 0.029)\times10^{-2}$
33.53 – 35.36	$(4.316\ 0.170\ 0.070)\times10^{-3}$	$(3.811\ 0.530\ 0.098)\times10^{-4}$	$(9.445\ 1.400\ 0.034)\times10^{-2}$
35.36 – 37.31	$(3.346\ 0.150\ 0.055)\times10^{-3}$	$(3.114\ 0.460\ 0.080)\times10^{-4}$	$(7.511\ 1.400\ 0.028)\times10^{-2}$
37.31 – 39.39	$(2.837\ 0.130\ 0.047)\times10^{-3}$	$(2.189\ 0.380\ 0.056)\times10^{-4}$	$(8.176\ 1.600\ 0.031)\times10^{-2}$
39.39 – 41.61	$(2.251\ 0.110\ 0.038)\times10^{-3}$	$(1.971\ 0.350\ 0.051)\times10^{-4}$	$(8.740\ 1.800\ 0.033)\times10^{-2}$
41.61 – 44.00	$(2.000\ 0.100\ 0.034)\times10^{-3}$	$(2.195\ 0.350\ 0.056)\times10^{-4}$	$(10.20\ 1.900\ 0.040)\times10^{-2}$
44.00 – 46.57	$(1.767\ 0.093\ 0.030)\times10^{-3}$	$(1.263\ 0.260\ 0.032)\times10^{-4}$	$(6.323\ 1.600\ 0.026)\times10^{-2}$
46.57 – 49.33	$(1.594\ 0.086\ 0.028)\times10^{-3}$	$(1.611\ 0.280\ 0.041)\times10^{-4}$	$(9.731\ 2.000\ 0.041)\times10^{-2}$

TABLE SM XXV: For Bartels Rotation 2449 (January 25, 2013 – February 20, 2013), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.783 0.026 0.030)×10^{1}	(1.545 0.082 0.028)×10^{0}	(8.761 0.500 0.099)×10^{-2}
1.22 – 1.46	(1.568 0.019 0.023)×10^{1}	(1.461 0.061 0.022)×10^{0}	(8.999 0.410 0.099)×10^{-2}
1.46 – 1.72	(1.334 0.013 0.017)×10^{1}	(9.849 0.380 0.140)×10^{-1}	(7.374 0.300 0.078)×10^{-2}
1.72 – 2.00	(1.096 0.010 0.012)×10^{1}	(8.060 0.270 0.110)×10^{-1}	(7.269 0.260 0.075)×10^{-2}
2.00 – 2.31	(8.932 0.070 0.089)×10^{0}	(6.320 0.190 0.084)×10^{-1}	(7.188 0.240 0.072)×10^{-2}
2.31 – 2.65	(7.231 0.053 0.066)×10^{0}	(4.811 0.140 0.065)×10^{-1}	(6.658 0.210 0.064)×10^{-2}
2.65 – 3.00	(5.687 0.042 0.050)×10^{0}	(3.954 0.110 0.055)×10^{-1}	(6.812 0.220 0.062)×10^{-2}
3.00 – 3.36	(4.636 0.034 0.041)×10^{0}	(2.747 0.087 0.040)×10^{-1}	(6.062 0.200 0.052)×10^{-2}
3.36 – 3.73	(3.712 0.028 0.033)×10^{0}	(2.065 0.070 0.031)×10^{-1}	(5.748 0.200 0.046)×10^{-2}
3.73 – 4.12	(2.956 0.023 0.027)×10^{0}	(1.755 0.058 0.028)×10^{-1}	(5.947 0.210 0.045)×10^{-2}
4.12 – 4.54	(2.334 0.018 0.022)×10^{0}	(1.306 0.046 0.021)×10^{-1}	(5.727 0.210 0.040)×10^{-2}
4.54 – 5.00	(1.888 0.015 0.018)×10^{0}	(1.114 0.038 0.019)×10^{-1}	(5.926 0.220 0.037)×10^{-2}
5.00 – 5.49	(1.479 0.012 0.015)×10^{0}	(8.141 0.300 0.140)×10^{-2}	(5.647 0.220 0.032)×10^{-2}
5.49 – 6.00	(1.158 0.010 0.012)×10^{0}	(6.159 0.240 0.110)×10^{-2}	(5.628 0.230 0.028)×10^{-2}
6.00 – 6.54	(9.000 0.079 0.098)×10^{-1}	(4.650 0.190 0.085)×10^{-2}	(5.270 0.230 0.023)×10^{-2}
6.54 – 7.10	(7.092 0.065 0.080)×10^{-1}	(3.780 0.160 0.071)×10^{-2}	(5.563 0.250 0.021)×10^{-2}
7.10 – 7.69	(5.685 0.055 0.066)×10^{-1}	(2.922 0.130 0.056)×10^{-2}	(5.005 0.240 0.018)×10^{-2}
7.69 – 8.30	(4.405 0.046 0.052)×10^{-1}	(2.444 0.110 0.048)×10^{-2}	(5.641 0.280 0.020)×10^{-2}
8.30 – 8.95	(3.566 0.039 0.043)×10^{-1}	(1.767 0.091 0.035)×10^{-2}	(4.981 0.270 0.017)×10^{-2}
8.95 – 9.62	(2.813 0.033 0.035)×10^{-1}	(1.534 0.081 0.032)×10^{-2}	(5.693 0.320 0.019)×10^{-2}
9.62 – 10.32	(2.212 0.028 0.028)×10^{-1}	(1.283 0.070 0.027)×10^{-2}	(5.674 0.340 0.019)×10^{-2}
10.32 – 11.04	(1.818 0.024 0.023)×10^{-1}	(1.044 0.061 0.023)×10^{-2}	(5.515 0.360 0.018)×10^{-2}
11.04 – 11.80	(1.435 0.021 0.019)×10^{-1}	(8.204 0.510 0.180)×10^{-3}	(6.215 0.410 0.020)×10^{-2}
11.80 – 12.59	(1.204 0.018 0.016)×10^{-1}	(6.910 0.450 0.160)×10^{-3}	(5.872 0.420 0.019)×10^{-2}
12.59 – 13.41	(9.527 0.160 0.130)×10^{-2}	(5.168 0.380 0.120)×10^{-3}	(5.191 0.420 0.017)×10^{-2}
13.41 – 14.25	(8.211 0.140 0.110)×10^{-2}	(4.300 0.330 0.100)×10^{-3}	(5.121 0.440 0.016)×10^{-2}
14.25 – 15.14	(6.666 0.120 0.092)×10^{-2}	(4.057 0.310 0.097)×10^{-3}	(6.325 0.520 0.020)×10^{-2}
15.14 – 16.05	(5.323 0.110 0.074)×10^{-2}	(3.600 0.290 0.088)×10^{-3}	(6.712 0.590 0.022)×10^{-2}
16.05 – 17.00	(4.413 0.092 0.062)×10^{-2}	(3.302 0.260 0.081)×10^{-3}	(7.309 0.650 0.024)×10^{-2}
17.00 – 17.98	(3.613 0.081 0.052)×10^{-2}	(2.387 0.220 0.059)×10^{-3}	(6.704 0.670 0.022)×10^{-2}
17.98 – 18.99	(3.019 0.072 0.044)×10^{-2}	(1.789 0.180 0.045)×10^{-3}	(6.336 0.690 0.021)×10^{-2}
18.99 – 20.04	(2.575 0.064 0.038)×10^{-2}	(2.006 0.190 0.051)×10^{-3}	(7.775 0.800 0.026)×10^{-2}
20.04 – 21.13	(2.258 0.058 0.033)×10^{-2}	(1.596 0.160 0.041)×10^{-3}	(7.353 0.800 0.025)×10^{-2}
21.13 – 22.25	(1.827 0.051 0.027)×10^{-2}	(1.336 0.140 0.034)×10^{-3}	(7.148 0.850 0.024)×10^{-2}
22.25 – 23.42	(1.610 0.045 0.024)×10^{-2}	(1.008 0.120 0.026)×10^{-3}	(6.055 0.790 0.021)×10^{-2}
23.42 – 24.62	(1.252 0.039 0.019)×10^{-2}	(1.174 0.120 0.030)×10^{-3}	(9.146 1.100 0.031)×10^{-2}
24.62 – 25.90	(1.126 0.035 0.017)×10^{-2}	(7.525 0.930 0.190)×10^{-4}	(6.712 0.920 0.023)×10^{-2}

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TABLE SM XXV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.527 0.310 0.150)$\times10^{-3}$	(6.701 0.850 0.170)$\times10^{-4}$	(6.616 0.970 0.023)$\times10^{-2}$
27.25 – 28.68	(7.923 0.270 0.120)$\times10^{-3}$	(6.122 0.770 0.160)$\times10^{-4}$	(7.444 1.100 0.026)$\times10^{-2}$
28.68 – 30.21	(6.642 0.240 0.100)$\times10^{-3}$	(4.478 0.640 0.110)$\times10^{-4}$	(6.875 1.100 0.024)$\times10^{-2}$
30.21 – 31.82	(5.925 0.220 0.094)$\times10^{-3}$	(4.280 0.600 0.110)$\times10^{-4}$	(6.362 1.100 0.022)$\times10^{-2}$
31.82 – 33.53	(4.495 0.180 0.072)$\times10^{-3}$	(3.678 0.540 0.094)$\times10^{-4}$	(7.220 1.200 0.026)$\times10^{-2}$
33.53 – 35.36	(4.096 0.170 0.066)$\times10^{-3}$	(3.364 0.490 0.086)$\times10^{-4}$	(8.510 1.400 0.031)$\times10^{-2}$
35.36 – 37.31	(3.538 0.150 0.058)$\times10^{-3}$	(2.722 0.430 0.070)$\times10^{-4}$	(8.392 1.400 0.031)$\times10^{-2}$
37.31 – 39.39	(2.724 0.130 0.045)$\times10^{-3}$	(2.721 0.420 0.070)$\times10^{-4}$	(8.814 1.600 0.033)$\times10^{-2}$
39.39 – 41.61	(2.335 0.110 0.039)$\times10^{-3}$	(1.662 0.320 0.043)$\times10^{-4}$	(7.173 1.500 0.027)$\times10^{-2}$
41.61 – 44.00	(2.009 0.100 0.034)$\times10^{-3}$	(2.042 0.340 0.052)$\times10^{-4}$	(10.87 2.000 0.043)$\times10^{-2}$
44.00 – 46.57	(1.538 0.087 0.026)$\times10^{-3}$	(1.329 0.270 0.034)$\times10^{-4}$	(9.368 2.000 0.038)$\times10^{-2}$
46.57 – 49.33	(1.479 0.083 0.026)$\times10^{-3}$	(1.298 0.260 0.033)$\times10^{-4}$	(8.851 1.900 0.037)$\times10^{-2}$

TABLE SM XXVI: For Bartels Rotation 2450 (February 21, 2013 – March 19, 2013), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.820 0.027 0.031)×10^{1}	(1.641 0.086 0.029)×10^{0}	(8.778 0.500 0.099)×10^{-2}
1.22 – 1.46	(1.576 0.020 0.023)×10^{1}	(1.335 0.059 0.020)×10^{0}	(8.672 0.410 0.095)×10^{-2}
1.46 – 1.72	(1.328 0.014 0.017)×10^{1}	(1.068 0.040 0.015)×10^{0}	(8.238 0.330 0.088)×10^{-2}
1.72 – 2.00	(1.082 0.010 0.012)×10^{1}	(7.959 0.270 0.110)×10^{-1}	(7.457 0.270 0.077)×10^{-2}
2.00 – 2.31	(8.932 0.072 0.089)×10^{0}	(6.675 0.200 0.088)×10^{-1}	(7.575 0.250 0.075)×10^{-2}
2.31 – 2.65	(7.045 0.053 0.065)×10^{0}	(4.838 0.150 0.065)×10^{-1}	(6.982 0.230 0.067)×10^{-2}
2.65 – 3.00	(5.646 0.042 0.050)×10^{0}	(3.660 0.110 0.051)×10^{-1}	(6.389 0.210 0.058)×10^{-2}
3.00 – 3.36	(4.569 0.034 0.040)×10^{0}	(2.892 0.090 0.042)×10^{-1}	(6.415 0.210 0.055)×10^{-2}
3.36 – 3.73	(3.606 0.028 0.032)×10^{0}	(2.114 0.071 0.032)×10^{-1}	(5.720 0.210 0.046)×10^{-2}
3.73 – 4.12	(2.916 0.023 0.026)×10^{0}	(1.744 0.059 0.028)×10^{-1}	(6.007 0.220 0.045)×10^{-2}
4.12 – 4.54	(2.329 0.018 0.022)×10^{0}	(1.385 0.047 0.023)×10^{-1}	(6.011 0.220 0.042)×10^{-2}
4.54 – 5.00	(1.836 0.015 0.018)×10^{0}	(1.036 0.037 0.018)×10^{-1}	(5.710 0.220 0.036)×10^{-2}
5.00 – 5.49	(1.445 0.012 0.014)×10^{0}	(7.890 0.290 0.140)×10^{-2}	(5.547 0.220 0.031)×10^{-2}
5.49 – 6.00	(1.131 0.010 0.012)×10^{0}	(6.335 0.240 0.110)×10^{-2}	(5.706 0.230 0.029)×10^{-2}
6.00 – 6.54	(9.019 0.079 0.098)×10^{-1}	(4.629 0.190 0.085)×10^{-2}	(5.173 0.230 0.023)×10^{-2}
6.54 – 7.10	(7.053 0.065 0.079)×10^{-1}	(3.840 0.160 0.072)×10^{-2}	(5.297 0.240 0.020)×10^{-2}
7.10 – 7.69	(5.547 0.054 0.064)×10^{-1}	(2.849 0.130 0.054)×10^{-2}	(5.321 0.250 0.019)×10^{-2}
7.69 – 8.30	(4.358 0.045 0.052)×10^{-1}	(2.318 0.110 0.045)×10^{-2}	(5.425 0.270 0.019)×10^{-2}
8.30 – 8.95	(3.467 0.038 0.042)×10^{-1}	(1.758 0.091 0.035)×10^{-2}	(5.038 0.280 0.017)×10^{-2}
8.95 – 9.62	(2.767 0.033 0.034)×10^{-1}	(1.581 0.082 0.033)×10^{-2}	(5.551 0.310 0.018)×10^{-2}
9.62 – 10.32	(2.191 0.028 0.028)×10^{-1}	(1.248 0.070 0.026)×10^{-2}	(5.724 0.340 0.019)×10^{-2}
10.32 – 11.04	(1.758 0.024 0.023)×10^{-1}	(1.019 0.060 0.022)×10^{-2}	(5.854 0.380 0.019)×10^{-2}
11.04 – 11.80	(1.446 0.021 0.019)×10^{-1}	(8.740 0.530 0.190)×10^{-3}	(6.102 0.400 0.020)×10^{-2}
11.80 – 12.59	(1.200 0.018 0.016)×10^{-1}	(6.888 0.450 0.160)×10^{-3}	(5.832 0.410 0.019)×10^{-2}
12.59 – 13.41	(9.427 0.150 0.130)×10^{-2}	(4.999 0.370 0.120)×10^{-3}	(5.617 0.440 0.018)×10^{-2}
13.41 – 14.25	(7.845 0.140 0.110)×10^{-2}	(4.519 0.340 0.110)×10^{-3}	(5.774 0.480 0.019)×10^{-2}
14.25 – 15.14	(6.571 0.120 0.091)×10^{-2}	(3.568 0.290 0.086)×10^{-3}	(5.362 0.480 0.017)×10^{-2}
15.14 – 16.05	(5.299 0.100 0.074)×10^{-2}	(3.274 0.270 0.080)×10^{-3}	(6.429 0.570 0.021)×10^{-2}
16.05 – 17.00	(4.536 0.093 0.064)×10^{-2}	(2.707 0.240 0.067)×10^{-3}	(6.073 0.580 0.020)×10^{-2}
17.00 – 17.98	(3.720 0.082 0.053)×10^{-2}	(2.109 0.200 0.052)×10^{-3}	(5.300 0.580 0.018)×10^{-2}
17.98 – 18.99	(3.050 0.072 0.044)×10^{-2}	(1.748 0.180 0.044)×10^{-3}	(5.535 0.640 0.018)×10^{-2}
18.99 – 20.04	(2.595 0.064 0.038)×10^{-2}	(1.854 0.180 0.047)×10^{-3}	(6.310 0.710 0.021)×10^{-2}
20.04 – 21.13	(2.169 0.057 0.032)×10^{-2}	(1.294 0.140 0.033)×10^{-3}	(5.901 0.710 0.020)×10^{-2}
21.13 – 22.25	(1.793 0.050 0.027)×10^{-2}	(1.201 0.140 0.031)×10^{-3}	(6.061 0.800 0.021)×10^{-2}
22.25 – 23.42	(1.540 0.044 0.023)×10^{-2}	(9.891 1.200 0.250)×10^{-4}	(7.078 0.880 0.024)×10^{-2}
23.42 – 24.62	(1.298 0.039 0.020)×10^{-2}	(8.472 1.000 0.220)×10^{-4}	(5.907 0.840 0.020)×10^{-2}
24.62 – 25.90	(1.092 0.034 0.017)×10^{-2}	(7.532 0.930 0.190)×10^{-4}	(6.828 0.950 0.023)×10^{-2}

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TABLE SM XXVI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.396\ 0.310\ 0.150)\times10^{-3}$	$(8.357\ 0.940\ 0.210)\times10^{-4}$	$(9.077\ 1.100\ 0.031)\times10^{-2}$
27.25 – 28.68	$(7.883\ 0.270\ 0.120)\times10^{-3}$	$(5.735\ 0.750\ 0.150)\times10^{-4}$	$(7.462\ 1.100\ 0.026)\times10^{-2}$
28.68 – 30.21	$(6.960\ 0.240\ 0.110)\times10^{-3}$	$(4.692\ 0.650\ 0.120)\times10^{-4}$	$(7.263\ 1.100\ 0.025)\times10^{-2}$
30.21 – 31.82	$(5.595\ 0.210\ 0.089)\times10^{-3}$	$(3.700\ 0.570\ 0.095)\times10^{-4}$	$(6.790\ 1.100\ 0.024)\times10^{-2}$
31.82 – 33.53	$(5.100\ 0.190\ 0.082)\times10^{-3}$	$(3.620\ 0.530\ 0.093)\times10^{-4}$	$(7.497\ 1.200\ 0.027)\times10^{-2}$
33.53 – 35.36	$(3.954\ 0.160\ 0.064)\times10^{-3}$	$(2.344\ 0.420\ 0.060)\times10^{-4}$	$(5.712\ 1.200\ 0.021)\times10^{-2}$
35.36 – 37.31	$(3.284\ 0.140\ 0.054)\times10^{-3}$	$(2.804\ 0.440\ 0.072)\times10^{-4}$	$(8.671\ 1.500\ 0.032)\times10^{-2}$
37.31 – 39.39	$(2.981\ 0.130\ 0.049)\times10^{-3}$	$(2.483\ 0.400\ 0.064)\times10^{-4}$	$(7.852\ 1.400\ 0.029)\times10^{-2}$
39.39 – 41.61	$(2.216\ 0.110\ 0.037)\times10^{-3}$	$(1.854\ 0.340\ 0.048)\times10^{-4}$	$(8.137\ 1.700\ 0.031)\times10^{-2}$
41.61 – 44.00	$(2.047\ 0.100\ 0.035)\times10^{-3}$	$(1.911\ 0.330\ 0.049)\times10^{-4}$	$(10.53\ 1.900\ 0.041)\times10^{-2}$
44.00 – 46.57	$(1.738\ 0.092\ 0.030)\times10^{-3}$	$(1.501\ 0.280\ 0.039)\times10^{-4}$	$(9.324\ 1.900\ 0.038)\times10^{-2}$
46.57 – 49.33	$(1.362\ 0.079\ 0.024)\times10^{-3}$	$(6.843\ 1.800\ 0.180)\times10^{-5}$	$(5.129\ 1.500\ 0.022)\times10^{-2}$

TABLE SM XXVII: For Bartels Rotation 2451 (March 20, 2013 – April 15, 2013), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.681 0.026 0.029)$\times10^{1}$	(1.411 0.079 0.025)$\times10^{0}$	(8.095 0.490 0.092)$\times10^{-2}$
1.22 – 1.46	(1.430 0.019 0.021)$\times10^{1}$	(1.230 0.058 0.019)$\times10^{0}$	(8.608 0.430 0.094)$\times10^{-2}$
1.46 – 1.72	(1.228 0.013 0.016)$\times10^{1}$	(9.501 0.380 0.130)$\times10^{-1}$	(7.688 0.330 0.082)$\times10^{-2}$
1.72 – 2.00	(1.015 0.009 0.011)$\times10^{1}$	(7.841 0.270 0.100)$\times10^{-1}$	(7.802 0.290 0.080)$\times10^{-2}$
2.00 – 2.31	(8.314 0.069 0.083)$\times10^{0}$	(5.822 0.190 0.077)$\times10^{-1}$	(7.212 0.250 0.072)$\times10^{-2}$
2.31 – 2.65	(6.746 0.053 0.062)$\times10^{0}$	(4.590 0.140 0.062)$\times10^{-1}$	(6.722 0.230 0.064)$\times10^{-2}$
2.65 – 3.00	(5.391 0.042 0.048)$\times10^{0}$	(3.415 0.110 0.048)$\times10^{-1}$	(6.405 0.220 0.058)$\times10^{-2}$
3.00 – 3.36	(4.299 0.034 0.038)$\times10^{0}$	(2.550 0.085 0.037)$\times10^{-1}$	(5.967 0.210 0.051)$\times10^{-2}$
3.36 – 3.73	(3.470 0.028 0.031)$\times10^{0}$	(2.016 0.069 0.031)$\times10^{-1}$	(5.984 0.220 0.048)$\times10^{-2}$
3.73 – 4.12	(2.825 0.023 0.026)$\times10^{0}$	(1.579 0.056 0.025)$\times10^{-1}$	(5.548 0.210 0.042)$\times10^{-2}$
4.12 – 4.54	(2.244 0.018 0.021)$\times10^{0}$	(1.271 0.045 0.021)$\times10^{-1}$	(5.722 0.220 0.040)$\times10^{-2}$
4.54 – 5.00	(1.776 0.015 0.017)$\times10^{0}$	(1.035 0.037 0.018)$\times10^{-1}$	(5.850 0.220 0.037)$\times10^{-2}$
5.00 – 5.49	(1.387 0.012 0.014)$\times10^{0}$	(7.958 0.290 0.140)$\times10^{-2}$	(5.770 0.230 0.033)$\times10^{-2}$
5.49 – 6.00	(1.097 0.010 0.011)$\times10^{0}$	(5.825 0.230 0.100)$\times10^{-2}$	(5.474 0.230 0.028)$\times10^{-2}$
6.00 – 6.54	(8.653 0.078 0.094)$\times10^{-1}$	(4.653 0.190 0.085)$\times10^{-2}$	(5.446 0.240 0.024)$\times10^{-2}$
6.54 – 7.10	(6.846 0.064 0.077)$\times10^{-1}$	(3.569 0.150 0.067)$\times10^{-2}$	(5.183 0.240 0.020)$\times10^{-2}$
7.10 – 7.69	(5.435 0.054 0.063)$\times10^{-1}$	(2.792 0.130 0.053)$\times10^{-2}$	(5.266 0.260 0.019)$\times10^{-2}$
7.69 – 8.30	(4.311 0.045 0.051)$\times10^{-1}$	(2.277 0.110 0.045)$\times10^{-2}$	(5.217 0.270 0.018)$\times10^{-2}$
8.30 – 8.95	(3.441 0.038 0.042)$\times10^{-1}$	(1.972 0.096 0.040)$\times10^{-2}$	(5.861 0.300 0.020)$\times10^{-2}$
8.95 – 9.62	(2.721 0.032 0.034)$\times10^{-1}$	(1.463 0.079 0.030)$\times10^{-2}$	(5.714 0.330 0.019)$\times10^{-2}$
9.62 – 10.32	(2.208 0.028 0.028)$\times10^{-1}$	(1.128 0.066 0.024)$\times10^{-2}$	(5.346 0.330 0.018)$\times10^{-2}$
10.32 – 11.04	(1.745 0.024 0.022)$\times10^{-1}$	(1.035 0.061 0.022)$\times10^{-2}$	(6.013 0.390 0.020)$\times10^{-2}$
11.04 – 11.80	(1.465 0.021 0.019)$\times10^{-1}$	(8.466 0.520 0.190)$\times10^{-3}$	(6.086 0.400 0.020)$\times10^{-2}$
11.80 – 12.59	(1.157 0.018 0.015)$\times10^{-1}$	(7.017 0.450 0.160)$\times10^{-3}$	(6.193 0.440 0.020)$\times10^{-2}$
12.59 – 13.41	(9.594 0.160 0.130)$\times10^{-2}$	(5.993 0.410 0.140)$\times10^{-3}$	(5.998 0.460 0.019)$\times10^{-2}$
13.41 – 14.25	(7.864 0.140 0.110)$\times10^{-2}$	(4.583 0.340 0.110)$\times10^{-3}$	(5.735 0.480 0.018)$\times10^{-2}$
14.25 – 15.14	(6.380 0.120 0.088)$\times10^{-2}$	(3.932 0.310 0.094)$\times10^{-3}$	(6.328 0.530 0.020)$\times10^{-2}$
15.14 – 16.05	(5.363 0.110 0.075)$\times10^{-2}$	(2.831 0.250 0.069)$\times10^{-3}$	(5.561 0.530 0.018)$\times10^{-2}$
16.05 – 17.00	(4.416 0.092 0.062)$\times10^{-2}$	(2.240 0.220 0.055)$\times10^{-3}$	(5.325 0.550 0.017)$\times10^{-2}$
17.00 – 17.98	(3.470 0.079 0.050)$\times10^{-2}$	(2.662 0.230 0.066)$\times10^{-3}$	(7.556 0.720 0.025)$\times10^{-2}$
17.98 – 18.99	(3.088 0.073 0.045)$\times10^{-2}$	(2.030 0.190 0.051)$\times10^{-3}$	(6.973 0.720 0.023)$\times10^{-2}$
18.99 – 20.04	(2.459 0.063 0.036)$\times10^{-2}$	(1.892 0.180 0.048)$\times10^{-3}$	(7.486 0.800 0.025)$\times10^{-2}$
20.04 – 21.13	(2.174 0.057 0.032)$\times10^{-2}$	(1.237 0.140 0.031)$\times10^{-3}$	(6.191 0.740 0.021)$\times10^{-2}$
21.13 – 22.25	(1.760 0.050 0.026)$\times10^{-2}$	(1.027 0.120 0.026)$\times10^{-3}$	(6.025 0.800 0.020)$\times10^{-2}$
22.25 – 23.42	(1.523 0.044 0.023)$\times10^{-2}$	(1.109 0.120 0.028)$\times10^{-3}$	(7.286 0.890 0.025)$\times10^{-2}$
23.42 – 24.62	(1.258 0.039 0.019)$\times10^{-2}$	(9.223 1.100 0.240)$\times10^{-4}$	(8.010 1.000 0.027)$\times10^{-2}$
24.62 – 25.90	(1.097 0.035 0.017)$\times10^{-2}$	(7.261 0.930 0.190)$\times10^{-4}$	(6.126 0.890 0.021)$\times10^{-2}$

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TABLE SM XXVII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.184 0.300 0.140)$\times10^{-3}$	(8.880 0.970 0.230)$\times10^{-4}$	(9.207 1.100 0.032)$\times10^{-2}$
27.25 – 28.68	(7.756 0.270 0.120)$\times10^{-3}$	(6.990 0.830 0.180)$\times10^{-4}$	(8.395 1.200 0.029)$\times10^{-2}$
28.68 – 30.21	(6.507 0.230 0.100)$\times10^{-3}$	(4.599 0.660 0.120)$\times10^{-4}$	(6.983 1.100 0.024)$\times10^{-2}$
30.21 – 31.82	(5.511 0.210 0.087)$\times10^{-3}$	(3.665 0.560 0.094)$\times10^{-4}$	(7.217 1.200 0.025)$\times10^{-2}$
31.82 – 33.53	(4.682 0.190 0.075)$\times10^{-3}$	(3.437 0.520 0.088)$\times10^{-4}$	(6.972 1.200 0.025)$\times10^{-2}$
33.53 – 35.36	(3.894 0.160 0.063)$\times10^{-3}$	(3.006 0.470 0.077)$\times10^{-4}$	(7.958 1.400 0.029)$\times10^{-2}$
35.36 – 37.31	(3.411 0.150 0.056)$\times10^{-3}$	(3.187 0.470 0.082)$\times10^{-4}$	(9.249 1.600 0.034)$\times10^{-2}$
37.31 – 39.39	(2.974 0.130 0.049)$\times10^{-3}$	(1.789 0.350 0.046)$\times10^{-4}$	(6.136 1.300 0.023)$\times10^{-2}$
39.39 – 41.61	(2.359 0.120 0.039)$\times10^{-3}$	(1.898 0.340 0.049)$\times10^{-4}$	(7.654 1.600 0.029)$\times10^{-2}$
41.61 – 44.00	(2.019 0.100 0.034)$\times10^{-3}$	(1.609 0.310 0.041)$\times10^{-4}$	(8.911 1.800 0.035)$\times10^{-2}$
44.00 – 46.57	(1.861 0.096 0.032)$\times10^{-3}$	(1.336 0.270 0.034)$\times10^{-4}$	(8.209 1.700 0.033)$\times10^{-2}$
46.57 – 49.33	(1.611 0.086 0.028)$\times10^{-3}$	(1.661 0.290 0.043)$\times10^{-4}$	(9.499 2.000 0.040)$\times10^{-2}$

TABLE SM XXVIII: For Bartels Rotation 2452 (April 16, 2013 – May 12, 2013), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	$(1.727\ 0.026\ 0.029)\times10^{1}$	$(1.833\ 0.089\ 0.033)\times10^{0}$	$(10.33\ 0.550\ 0.120)\times10^{-2}$
1.22 – 1.46	$(1.526\ 0.019\ 0.022)\times10^{1}$	$(1.208\ 0.056\ 0.019)\times10^{0}$	$(8.001\ 0.400\ 0.088)\times10^{-2}$
1.46 – 1.72	$(1.286\ 0.013\ 0.016)\times10^{1}$	$(9.460\ 0.370\ 0.130)\times10^{-1}$	$(7.245\ 0.310\ 0.077)\times10^{-2}$
1.72 – 2.00	$(1.023\ 0.009\ 0.011)\times10^{1}$	$(7.223\ 0.260\ 0.097)\times10^{-1}$	$(7.186\ 0.270\ 0.074)\times10^{-2}$
2.00 – 2.31	$(8.386\ 0.068\ 0.084)\times10^{0}$	$(6.001\ 0.190\ 0.079)\times10^{-1}$	$(7.154\ 0.240\ 0.071)\times10^{-2}$
2.31 – 2.65	$(6.722\ 0.051\ 0.062)\times10^{0}$	$(4.620\ 0.140\ 0.062)\times10^{-1}$	$(6.923\ 0.230\ 0.066)\times10^{-2}$
2.65 – 3.00	$(5.341\ 0.041\ 0.047)\times10^{0}$	$(3.239\ 0.100\ 0.045)\times10^{-1}$	$(5.934\ 0.210\ 0.054)\times10^{-2}$
3.00 – 3.36	$(4.386\ 0.033\ 0.039)\times10^{0}$	$(2.634\ 0.085\ 0.039)\times10^{-1}$	$(6.038\ 0.210\ 0.052)\times10^{-2}$
3.36 – 3.73	$(3.540\ 0.027\ 0.032)\times10^{0}$	$(2.112\ 0.070\ 0.032)\times10^{-1}$	$(5.972\ 0.210\ 0.048)\times10^{-2}$
3.73 – 4.12	$(2.796\ 0.022\ 0.025)\times10^{0}$	$(1.659\ 0.056\ 0.026)\times10^{-1}$	$(6.059\ 0.220\ 0.046)\times10^{-2}$
4.12 – 4.54	$(2.214\ 0.018\ 0.021)\times10^{0}$	$(1.211\ 0.044\ 0.020)\times10^{-1}$	$(5.493\ 0.210\ 0.038)\times10^{-2}$
4.54 – 5.00	$(1.784\ 0.014\ 0.017)\times10^{0}$	$(1.060\ 0.037\ 0.018)\times10^{-1}$	$(5.899\ 0.220\ 0.037)\times10^{-2}$
5.00 – 5.49	$(1.400\ 0.012\ 0.014)\times10^{0}$	$(7.266\ 0.280\ 0.130)\times10^{-2}$	$(5.161\ 0.210\ 0.029)\times10^{-2}$
5.49 – 6.00	$(1.111\ 0.009\ 0.012)\times10^{0}$	$(5.843\ 0.230\ 0.100)\times10^{-2}$	$(5.355\ 0.220\ 0.027)\times10^{-2}$
6.00 – 6.54	$(8.828\ 0.078\ 0.096)\times10^{-1}$	$(4.644\ 0.190\ 0.085)\times10^{-2}$	$(5.041\ 0.220\ 0.022)\times10^{-2}$
6.54 – 7.10	$(6.867\ 0.064\ 0.077)\times10^{-1}$	$(3.501\ 0.150\ 0.065)\times10^{-2}$	$(5.276\ 0.240\ 0.020)\times10^{-2}$
7.10 – 7.69	$(5.453\ 0.053\ 0.063)\times10^{-1}$	$(2.951\ 0.130\ 0.056)\times10^{-2}$	$(5.584\ 0.260\ 0.020)\times10^{-2}$
7.69 – 8.30	$(4.329\ 0.045\ 0.051)\times10^{-1}$	$(2.369\ 0.110\ 0.046)\times10^{-2}$	$(5.440\ 0.280\ 0.019)\times10^{-2}$
8.30 – 8.95	$(3.493\ 0.038\ 0.042)\times10^{-1}$	$(1.932\ 0.094\ 0.039)\times10^{-2}$	$(5.500\ 0.290\ 0.019)\times10^{-2}$
8.95 – 9.62	$(2.835\ 0.033\ 0.035)\times10^{-1}$	$(1.529\ 0.080\ 0.032)\times10^{-2}$	$(5.576\ 0.310\ 0.019)\times10^{-2}$
9.62 – 10.32	$(2.232\ 0.028\ 0.028)\times10^{-1}$	$(1.184\ 0.067\ 0.025)\times10^{-2}$	$(5.092\ 0.320\ 0.017)\times10^{-2}$
10.32 – 11.04	$(1.785\ 0.024\ 0.023)\times10^{-1}$	$(1.039\ 0.060\ 0.023)\times10^{-2}$	$(5.876\ 0.370\ 0.019)\times10^{-2}$
11.04 – 11.80	$(1.461\ 0.021\ 0.019)\times10^{-1}$	$(8.410\ 0.510\ 0.190)\times10^{-3}$	$(5.793\ 0.390\ 0.019)\times10^{-2}$
11.80 – 12.59	$(1.197\ 0.018\ 0.016)\times10^{-1}$	$(6.743\ 0.440\ 0.150)\times10^{-3}$	$(5.587\ 0.410\ 0.018)\times10^{-2}$
12.59 – 13.41	$(9.603\ 0.160\ 0.130)\times10^{-2}$	$(5.634\ 0.390\ 0.130)\times10^{-3}$	$(5.796\ 0.450\ 0.019)\times10^{-2}$
13.41 – 14.25	$(7.920\ 0.140\ 0.110)\times10^{-2}$	$(3.724\ 0.310\ 0.088)\times10^{-3}$	$(4.638\ 0.420\ 0.015)\times10^{-2}$
14.25 – 15.14	$(6.481\ 0.120\ 0.089)\times10^{-2}$	$(4.193\ 0.310\ 0.100)\times10^{-3}$	$(6.337\ 0.530\ 0.020)\times10^{-2}$
15.14 – 16.05	$(5.273\ 0.100\ 0.074)\times10^{-2}$	$(3.058\ 0.260\ 0.074)\times10^{-3}$	$(5.884\ 0.550\ 0.019)\times10^{-2}$
16.05 – 17.00	$(4.439\ 0.092\ 0.063)\times10^{-2}$	$(2.394\ 0.220\ 0.059)\times10^{-3}$	$(5.734\ 0.560\ 0.019)\times10^{-2}$
17.00 – 17.98	$(3.692\ 0.081\ 0.053)\times10^{-2}$	$(2.422\ 0.220\ 0.060)\times10^{-3}$	$(6.255\ 0.630\ 0.021)\times10^{-2}$
17.98 – 18.99	$(3.016\ 0.071\ 0.044)\times10^{-2}$	$(2.022\ 0.190\ 0.051)\times10^{-3}$	$(6.079\ 0.670\ 0.020)\times10^{-2}$
18.99 – 20.04	$(2.554\ 0.063\ 0.037)\times10^{-2}$	$(1.633\ 0.170\ 0.041)\times10^{-3}$	$(6.747\ 0.750\ 0.023)\times10^{-2}$
20.04 – 21.13	$(2.206\ 0.057\ 0.032)\times10^{-2}$	$(1.203\ 0.140\ 0.031)\times10^{-3}$	$(5.833\ 0.720\ 0.020)\times10^{-2}$
21.13 – 22.25	$(1.773\ 0.049\ 0.026)\times10^{-2}$	$(1.251\ 0.140\ 0.032)\times10^{-3}$	$(7.446\ 0.870\ 0.025)\times10^{-2}$
22.25 – 23.42	$(1.507\ 0.044\ 0.023)\times10^{-2}$	$(8.657\ 1.100\ 0.220)\times10^{-4}$	$(5.720\ 0.790\ 0.019)\times10^{-2}$
23.42 – 24.62	$(1.297\ 0.039\ 0.020)\times10^{-2}$	$(8.496\ 1.000\ 0.220)\times10^{-4}$	$(6.555\ 0.890\ 0.022)\times10^{-2}$
24.62 – 25.90	$(1.131\ 0.035\ 0.017)\times10^{-2}$	$(7.484\ 0.920\ 0.190)\times10^{-4}$	$(6.880\ 0.920\ 0.024)\times10^{-2}$

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TABLE SM XXVIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.953\ 0.310\ 0.150)\times10^{-3}$	$(7.202\ 0.870\ 0.190)\times10^{-4}$	$(7.152\ 0.970\ 0.025)\times10^{-2}$
27.25 – 28.68	$(8.268\ 0.270\ 0.130)\times10^{-3}$	$(5.856\ 0.750\ 0.150)\times10^{-4}$	$(6.991\ 1.000\ 0.024)\times10^{-2}$
28.68 – 30.21	$(6.384\ 0.230\ 0.100)\times10^{-3}$	$(4.900\ 0.650\ 0.130)\times10^{-4}$	$(7.753\ 1.200\ 0.027)\times10^{-2}$
30.21 – 31.82	$(5.230\ 0.200\ 0.083)\times10^{-3}$	$(4.783\ 0.630\ 0.120)\times10^{-4}$	$(9.015\ 1.300\ 0.032)\times10^{-2}$
31.82 – 33.53	$(4.917\ 0.190\ 0.079)\times10^{-3}$	$(4.478\ 0.590\ 0.110)\times10^{-4}$	$(8.773\ 1.300\ 0.031)\times10^{-2}$
33.53 – 35.36	$(3.878\ 0.160\ 0.063)\times10^{-3}$	$(3.301\ 0.490\ 0.085)\times10^{-4}$	$(9.066\ 1.500\ 0.033)\times10^{-2}$
35.36 – 37.31	$(3.522\ 0.150\ 0.058)\times10^{-3}$	$(2.950\ 0.450\ 0.076)\times10^{-4}$	$(8.551\ 1.400\ 0.031)\times10^{-2}$
37.31 – 39.39	$(2.706\ 0.130\ 0.045)\times10^{-3}$	$(3.123\ 0.450\ 0.080)\times10^{-4}$	$(10.97\ 1.800\ 0.041)\times10^{-2}$
39.39 – 41.61	$(2.231\ 0.110\ 0.037)\times10^{-3}$	$(2.131\ 0.360\ 0.055)\times10^{-4}$	$(10.67\ 2.000\ 0.041)\times10^{-2}$
41.61 – 44.00	$(2.079\ 0.100\ 0.035)\times10^{-3}$	$(1.731\ 0.310\ 0.044)\times10^{-4}$	$(8.747\ 1.700\ 0.034)\times10^{-2}$
44.00 – 46.57	$(1.415\ 0.083\ 0.024)\times10^{-3}$	$(1.647\ 0.290\ 0.042)\times10^{-4}$	$(11.38\ 2.300\ 0.046)\times10^{-2}$
46.57 – 49.33	$(1.402\ 0.080\ 0.024)\times10^{-3}$	$(1.200\ 0.240\ 0.031)\times10^{-4}$	$(9.818\ 2.100\ 0.041)\times10^{-2}$

TABLE SM XXIX: For Bartels Rotation 2453 (May 13, 2013 – June 08, 2013), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.442 0.025 0.024)$\times10^{1}$	(1.327 0.078 0.024)$\times10^{0}$	(9.232 0.590 0.100)$\times10^{-2}$
1.22 – 1.46	(1.222 0.018 0.018)$\times10^{1}$	(1.104 0.056 0.017)$\times10^{0}$	(8.976 0.490 0.098)$\times10^{-2}$
1.46 – 1.72	(1.065 0.012 0.014)$\times10^{1}$	(8.297 0.360 0.120)$\times10^{-1}$	(7.703 0.360 0.082)$\times10^{-2}$
1.72 – 2.00	(8.481 0.087 0.095)$\times10^{0}$	(6.624 0.250 0.089)$\times10^{-1}$	(7.755 0.320 0.080)$\times10^{-2}$
2.00 – 2.31	(6.941 0.064 0.069)$\times10^{0}$	(4.988 0.180 0.066)$\times10^{-1}$	(7.265 0.280 0.072)$\times10^{-2}$
2.31 – 2.65	(5.725 0.049 0.052)$\times10^{0}$	(3.605 0.130 0.048)$\times10^{-1}$	(6.306 0.240 0.060)$\times10^{-2}$
2.65 – 3.00	(4.527 0.038 0.040)$\times10^{0}$	(2.928 0.100 0.041)$\times10^{-1}$	(6.337 0.240 0.058)$\times10^{-2}$
3.00 – 3.36	(3.757 0.031 0.033)$\times10^{0}$	(2.380 0.083 0.035)$\times10^{-1}$	(6.361 0.240 0.055)$\times10^{-2}$
3.36 – 3.73	(3.071 0.026 0.027)$\times10^{0}$	(1.717 0.064 0.026)$\times10^{-1}$	(5.624 0.220 0.045)$\times10^{-2}$
3.73 – 4.12	(2.455 0.021 0.022)$\times10^{0}$	(1.349 0.052 0.021)$\times10^{-1}$	(5.465 0.220 0.041)$\times10^{-2}$
4.12 – 4.54	(1.992 0.017 0.018)$\times10^{0}$	(1.070 0.042 0.018)$\times10^{-1}$	(5.477 0.230 0.038)$\times10^{-2}$
4.54 – 5.00	(1.602 0.014 0.015)$\times10^{0}$	(8.337 0.330 0.140)$\times10^{-2}$	(5.210 0.220 0.033)$\times10^{-2}$
5.00 – 5.49	(1.249 0.011 0.013)$\times10^{0}$	(7.050 0.280 0.120)$\times10^{-2}$	(5.835 0.240 0.033)$\times10^{-2}$
5.49 – 6.00	(1.018 0.009 0.011)$\times10^{0}$	(5.428 0.220 0.097)$\times10^{-2}$	(5.460 0.240 0.028)$\times10^{-2}$
6.00 – 6.54	(7.891 0.074 0.086)$\times10^{-1}$	(4.216 0.180 0.077)$\times10^{-2}$	(5.509 0.250 0.024)$\times10^{-2}$
6.54 – 7.10	(6.298 0.062 0.071)$\times10^{-1}$	(3.382 0.150 0.063)$\times10^{-2}$	(5.226 0.250 0.020)$\times10^{-2}$
7.10 – 7.69	(5.116 0.052 0.059)$\times10^{-1}$	(2.744 0.130 0.052)$\times10^{-2}$	(5.294 0.260 0.019)$\times10^{-2}$
7.69 – 8.30	(4.051 0.044 0.048)$\times10^{-1}$	(2.130 0.110 0.042)$\times10^{-2}$	(5.065 0.270 0.018)$\times10^{-2}$
8.30 – 8.95	(3.194 0.037 0.039)$\times10^{-1}$	(1.929 0.094 0.039)$\times10^{-2}$	(5.975 0.320 0.020)$\times10^{-2}$
8.95 – 9.62	(2.611 0.032 0.032)$\times10^{-1}$	(1.359 0.076 0.028)$\times10^{-2}$	(5.262 0.320 0.018)$\times10^{-2}$
9.62 – 10.32	(2.141 0.027 0.027)$\times10^{-1}$	(1.116 0.066 0.024)$\times10^{-2}$	(5.074 0.330 0.017)$\times10^{-2}$
10.32 – 11.04	(1.691 0.023 0.022)$\times10^{-1}$	(9.392 0.570 0.200)$\times10^{-3}$	(5.445 0.370 0.018)$\times10^{-2}$
11.04 – 11.80	(1.356 0.020 0.018)$\times10^{-1}$	(8.258 0.510 0.180)$\times10^{-3}$	(6.101 0.410 0.020)$\times10^{-2}$
11.80 – 12.59	(1.116 0.018 0.015)$\times10^{-1}$	(7.358 0.470 0.170)$\times10^{-3}$	(6.606 0.460 0.021)$\times10^{-2}$
12.59 – 13.41	(9.191 0.150 0.120)$\times10^{-2}$	(4.982 0.370 0.120)$\times10^{-3}$	(5.537 0.450 0.018)$\times10^{-2}$
13.41 – 14.25	(7.717 0.140 0.110)$\times10^{-2}$	(4.579 0.350 0.110)$\times10^{-3}$	(5.908 0.500 0.019)$\times10^{-2}$
14.25 – 15.14	(6.312 0.120 0.087)$\times10^{-2}$	(3.878 0.310 0.093)$\times10^{-3}$	(5.959 0.520 0.019)$\times10^{-2}$
15.14 – 16.05	(5.293 0.100 0.074)$\times10^{-2}$	(2.799 0.250 0.068)$\times10^{-3}$	(5.141 0.510 0.017)$\times10^{-2}$
16.05 – 17.00	(4.239 0.090 0.060)$\times10^{-2}$	(2.568 0.230 0.063)$\times10^{-3}$	(6.116 0.600 0.020)$\times10^{-2}$
17.00 – 17.98	(3.552 0.080 0.051)$\times10^{-2}$	(2.805 0.230 0.070)$\times10^{-3}$	(7.566 0.710 0.025)$\times10^{-2}$
17.98 – 18.99	(2.967 0.071 0.043)$\times10^{-2}$	(1.944 0.190 0.049)$\times10^{-3}$	(6.601 0.700 0.022)$\times10^{-2}$
18.99 – 20.04	(2.642 0.065 0.039)$\times10^{-2}$	(1.623 0.170 0.041)$\times10^{-3}$	(6.136 0.690 0.021)$\times10^{-2}$
20.04 – 21.13	(2.192 0.057 0.032)$\times10^{-2}$	(1.141 0.140 0.029)$\times10^{-3}$	(5.389 0.690 0.018)$\times10^{-2}$
21.13 – 22.25	(1.929 0.052 0.029)$\times10^{-2}$	(1.142 0.130 0.029)$\times10^{-3}$	(5.307 0.710 0.018)$\times10^{-2}$
22.25 – 23.42	(1.542 0.044 0.023)$\times10^{-2}$	(1.102 0.120 0.028)$\times10^{-3}$	(7.148 0.890 0.024)$\times10^{-2}$
23.42 – 24.62	(1.266 0.039 0.019)$\times10^{-2}$	(8.001 1.000 0.210)$\times10^{-4}$	(6.156 0.880 0.021)$\times10^{-2}$
24.62 – 25.90	(1.117 0.035 0.017)$\times10^{-2}$	(7.208 0.920 0.190)$\times10^{-4}$	(5.950 0.880 0.020)$\times10^{-2}$

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TABLE SM XXIX – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.343\ 0.310\ 0.140)\times10^{-3}$	$(6.270\ 0.830\ 0.160)\times10^{-4}$	$(6.401\ 0.950\ 0.022)\times10^{-2}$
27.25 – 28.68	$(7.924\ 0.270\ 0.120)\times10^{-3}$	$(4.983\ 0.700\ 0.130)\times10^{-4}$	$(5.802\ 0.930\ 0.020)\times10^{-2}$
28.68 – 30.21	$(6.676\ 0.240\ 0.100)\times10^{-3}$	$(6.344\ 0.750\ 0.160)\times10^{-4}$	$(8.323\ 1.200\ 0.029)\times10^{-2}$
30.21 – 31.82	$(5.705\ 0.210\ 0.090)\times10^{-3}$	$(5.079\ 0.650\ 0.130)\times10^{-4}$	$(8.213\ 1.200\ 0.029)\times10^{-2}$
31.82 – 33.53	$(4.822\ 0.190\ 0.077)\times10^{-3}$	$(3.480\ 0.520\ 0.089)\times10^{-4}$	$(7.012\ 1.200\ 0.025)\times10^{-2}$
33.53 – 35.36	$(4.049\ 0.170\ 0.065)\times10^{-3}$	$(3.192\ 0.490\ 0.082)\times10^{-4}$	$(6.698\ 1.200\ 0.024)\times10^{-2}$
35.36 – 37.31	$(3.389\ 0.150\ 0.055)\times10^{-3}$	$(2.236\ 0.400\ 0.057)\times10^{-4}$	$(7.101\ 1.300\ 0.026)\times10^{-2}$
37.31 – 39.39	$(2.890\ 0.130\ 0.048)\times10^{-3}$	$(2.540\ 0.410\ 0.065)\times10^{-4}$	$(8.148\ 1.500\ 0.030)\times10^{-2}$
39.39 – 41.61	$(2.545\ 0.120\ 0.042)\times10^{-3}$	$(2.398\ 0.380\ 0.061)\times10^{-4}$	$(10.55\ 1.800\ 0.040)\times10^{-2}$
41.61 – 44.00	$(2.176\ 0.110\ 0.037)\times10^{-3}$	$(1.639\ 0.310\ 0.042)\times10^{-4}$	$(8.328\ 1.700\ 0.033)\times10^{-2}$
44.00 – 46.57	$(1.615\ 0.089\ 0.028)\times10^{-3}$	$(1.521\ 0.290\ 0.039)\times10^{-4}$	$(9.592\ 2.000\ 0.039)\times10^{-2}$
46.57 – 49.33	$(1.363\ 0.079\ 0.024)\times10^{-3}$	$(7.919\ 2.000\ 0.200)\times10^{-5}$	$(6.385\ 1.700\ 0.027)\times10^{-2}$

TABLE SM XXX: For Bartels Rotation 2454 (June 09, 2013 – July 05, 2013), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.352 0.023 0.023)$\times10^{1}$	(1.267 0.072 0.023)$\times10^{0}$	(9.474 0.580 0.110)$\times10^{-2}$
1.22 – 1.46	(1.188 0.017 0.017)$\times10^{1}$	(9.497 0.490 0.150)$\times10^{-1}$	(7.975 0.440 0.087)$\times10^{-2}$
1.46 – 1.72	(1.036 0.012 0.013)$\times10^{1}$	(7.811 0.340 0.110)$\times10^{-1}$	(7.495 0.350 0.080)$\times10^{-2}$
1.72 – 2.00	(8.518 0.084 0.096)$\times10^{0}$	(6.311 0.240 0.084)$\times10^{-1}$	(7.461 0.300 0.077)$\times10^{-2}$
2.00 – 2.31	(6.951 0.062 0.069)$\times10^{0}$	(4.867 0.170 0.064)$\times10^{-1}$	(6.871 0.260 0.068)$\times10^{-2}$
2.31 – 2.65	(5.800 0.047 0.053)$\times10^{0}$	(3.739 0.120 0.050)$\times10^{-1}$	(6.347 0.230 0.061)$\times10^{-2}$
2.65 – 3.00	(4.634 0.038 0.041)$\times10^{0}$	(2.842 0.096 0.040)$\times10^{-1}$	(6.133 0.230 0.056)$\times10^{-2}$
3.00 – 3.36	(3.760 0.031 0.033)$\times10^{0}$	(2.219 0.078 0.033)$\times10^{-1}$	(5.949 0.220 0.051)$\times10^{-2}$
3.36 – 3.73	(3.089 0.025 0.028)$\times10^{0}$	(1.875 0.065 0.029)$\times10^{-1}$	(6.075 0.230 0.049)$\times10^{-2}$
3.73 – 4.12	(2.510 0.021 0.023)$\times10^{0}$	(1.417 0.052 0.022)$\times10^{-1}$	(5.660 0.220 0.043)$\times10^{-2}$
4.12 – 4.54	(2.023 0.017 0.019)$\times10^{0}$	(1.178 0.043 0.019)$\times10^{-1}$	(5.714 0.230 0.040)$\times10^{-2}$
4.54 – 5.00	(1.617 0.014 0.016)$\times10^{0}$	(9.115 0.340 0.150)$\times10^{-2}$	(5.754 0.230 0.036)$\times10^{-2}$
5.00 – 5.49	(1.298 0.011 0.013)$\times10^{0}$	(6.997 0.270 0.120)$\times10^{-2}$	(5.518 0.230 0.031)$\times10^{-2}$
5.49 – 6.00	(1.032 0.009 0.011)$\times10^{0}$	(5.361 0.220 0.096)$\times10^{-2}$	(5.258 0.230 0.026)$\times10^{-2}$
6.00 – 6.54	(8.074 0.074 0.088)$\times10^{-1}$	(4.317 0.180 0.079)$\times10^{-2}$	(5.434 0.240 0.024)$\times10^{-2}$
6.54 – 7.10	(6.452 0.062 0.073)$\times10^{-1}$	(3.510 0.150 0.066)$\times10^{-2}$	(5.646 0.260 0.022)$\times10^{-2}$
7.10 – 7.69	(5.192 0.052 0.060)$\times10^{-1}$	(2.740 0.120 0.052)$\times10^{-2}$	(5.396 0.260 0.019)$\times10^{-2}$
7.69 – 8.30	(4.168 0.044 0.049)$\times10^{-1}$	(2.218 0.110 0.043)$\times10^{-2}$	(5.299 0.280 0.018)$\times10^{-2}$
8.30 – 8.95	(3.287 0.037 0.040)$\times10^{-1}$	(1.823 0.091 0.037)$\times10^{-2}$	(5.557 0.300 0.019)$\times10^{-2}$
8.95 – 9.62	(2.632 0.032 0.032)$\times10^{-1}$	(1.332 0.075 0.027)$\times10^{-2}$	(4.886 0.300 0.016)$\times10^{-2}$
9.62 – 10.32	(2.095 0.027 0.026)$\times10^{-1}$	(1.218 0.068 0.026)$\times10^{-2}$	(5.727 0.350 0.019)$\times10^{-2}$
10.32 – 11.04	(1.748 0.024 0.022)$\times10^{-1}$	(9.172 0.570 0.200)$\times10^{-3}$	(5.209 0.350 0.017)$\times10^{-2}$
11.04 – 11.80	(1.418 0.020 0.018)$\times10^{-1}$	(8.152 0.510 0.180)$\times10^{-3}$	(5.642 0.390 0.018)$\times10^{-2}$
11.80 – 12.59	(1.165 0.018 0.015)$\times10^{-1}$	(6.699 0.440 0.150)$\times10^{-3}$	(5.835 0.420 0.019)$\times10^{-2}$
12.59 – 13.41	(9.290 0.150 0.130)$\times10^{-2}$	(6.133 0.410 0.140)$\times10^{-3}$	(6.606 0.480 0.021)$\times10^{-2}$
13.41 – 14.25	(7.970 0.140 0.110)$\times10^{-2}$	(4.589 0.340 0.110)$\times10^{-3}$	(6.263 0.500 0.020)$\times10^{-2}$
14.25 – 15.14	(6.264 0.120 0.086)$\times10^{-2}$	(3.940 0.310 0.094)$\times10^{-3}$	(6.284 0.530 0.020)$\times10^{-2}$
15.14 – 16.05	(5.334 0.100 0.075)$\times10^{-2}$	(3.485 0.280 0.085)$\times10^{-3}$	(6.229 0.560 0.020)$\times10^{-2}$
16.05 – 17.00	(4.394 0.091 0.062)$\times10^{-2}$	(2.991 0.250 0.074)$\times10^{-3}$	(6.507 0.600 0.021)$\times10^{-2}$
17.00 – 17.98	(3.696 0.081 0.053)$\times10^{-2}$	(2.371 0.210 0.059)$\times10^{-3}$	(6.818 0.660 0.023)$\times10^{-2}$
17.98 – 18.99	(3.076 0.072 0.044)$\times10^{-2}$	(2.077 0.190 0.052)$\times10^{-3}$	(6.996 0.710 0.023)$\times10^{-2}$
18.99 – 20.04	(2.500 0.063 0.036)$\times10^{-2}$	(1.804 0.170 0.046)$\times10^{-3}$	(6.703 0.740 0.023)$\times10^{-2}$
20.04 – 21.13	(2.113 0.056 0.031)$\times10^{-2}$	(1.135 0.130 0.029)$\times10^{-3}$	(5.231 0.690 0.018)$\times10^{-2}$
21.13 – 22.25	(1.776 0.049 0.026)$\times10^{-2}$	(1.280 0.140 0.033)$\times10^{-3}$	(7.434 0.870 0.025)$\times10^{-2}$
22.25 – 23.42	(1.476 0.043 0.022)$\times10^{-2}$	(1.112 0.120 0.028)$\times10^{-3}$	(8.296 0.970 0.028)$\times10^{-2}$
23.42 – 24.62	(1.325 0.039 0.020)$\times10^{-2}$	(8.287 1.000 0.210)$\times10^{-4}$	(6.527 0.880 0.022)$\times10^{-2}$
24.62 – 25.90	(1.051 0.033 0.016)$\times10^{-2}$	(6.532 0.880 0.170)$\times10^{-4}$	(6.109 0.910 0.021)$\times10^{-2}$

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TABLE SM XXX – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.361\ 0.300\ 0.140)\times10^{-3}$	$(6.113\ 0.800\ 0.160)\times10^{-4}$	$(6.549\ 0.940\ 0.023)\times10^{-2}$
27.25 – 28.68	$(7.669\ 0.260\ 0.120)\times10^{-3}$	$(4.675\ 0.680\ 0.120)\times10^{-4}$	$(5.744\ 0.940\ 0.020)\times10^{-2}$
28.68 – 30.21	$(6.568\ 0.230\ 0.100)\times10^{-3}$	$(3.991\ 0.610\ 0.100)\times10^{-4}$	$(6.387\ 1.100\ 0.022)\times10^{-2}$
30.21 – 31.82	$(5.822\ 0.210\ 0.092)\times10^{-3}$	$(4.175\ 0.590\ 0.110)\times10^{-4}$	$(6.905\ 1.100\ 0.024)\times10^{-2}$
31.82 – 33.53	$(4.426\ 0.180\ 0.071)\times10^{-3}$	$(4.456\ 0.590\ 0.110)\times10^{-4}$	$(11.60\ 1.600\ 0.041)\times10^{-2}$
33.53 – 35.36	$(3.887\ 0.160\ 0.063)\times10^{-3}$	$(3.642\ 0.510\ 0.093)\times10^{-4}$	$(8.710\ 1.400\ 0.031)\times10^{-2}$
35.36 – 37.31	$(3.290\ 0.140\ 0.054)\times10^{-3}$	$(2.655\ 0.430\ 0.068)\times10^{-4}$	$(8.352\ 1.500\ 0.031)\times10^{-2}$
37.31 – 39.39	$(2.673\ 0.130\ 0.044)\times10^{-3}$	$(2.491\ 0.400\ 0.064)\times10^{-4}$	$(9.344\ 1.700\ 0.035)\times10^{-2}$
39.39 – 41.61	$(2.501\ 0.120\ 0.042)\times10^{-3}$	$(1.597\ 0.310\ 0.041)\times10^{-4}$	$(7.288\ 1.500\ 0.028)\times10^{-2}$
41.61 – 44.00	$(2.016\ 0.100\ 0.034)\times10^{-3}$	$(1.824\ 0.320\ 0.047)\times10^{-4}$	$(9.497\ 1.800\ 0.037)\times10^{-2}$
44.00 – 46.57	$(1.583\ 0.088\ 0.027)\times10^{-3}$	$(2.114\ 0.330\ 0.054)\times10^{-4}$	$(13.31\ 2.400\ 0.054)\times10^{-2}$
46.57 – 49.33	$(1.344\ 0.078\ 0.023)\times10^{-3}$	$(1.338\ 0.250\ 0.034)\times10^{-4}$	$(8.985\ 2.000\ 0.038)\times10^{-2}$

TABLE SM XXXI: For Bartels Rotation 2455 (July 06, 2013 – August 01, 2013), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.278 0.022 0.022)×10^{1}	(1.194 0.072 0.021)×10^{0}	(9.429 0.610 0.110)×10^{-2}
1.22 – 1.46	(1.182 0.017 0.017)×10^{1}	(9.643 0.500 0.150)×10^{-1}	(8.128 0.450 0.089)×10^{-2}
1.46 – 1.72	(1.012 0.012 0.013)×10^{1}	(7.985 0.340 0.110)×10^{-1}	(7.535 0.350 0.080)×10^{-2}
1.72 – 2.00	(8.213 0.083 0.092)×10^{0}	(5.983 0.230 0.080)×10^{-1}	(7.074 0.300 0.073)×10^{-2}
2.00 – 2.31	(6.856 0.062 0.069)×10^{0}	(4.985 0.170 0.066)×10^{-1}	(7.304 0.270 0.073)×10^{-2}
2.31 – 2.65	(5.671 0.047 0.052)×10^{0}	(3.970 0.130 0.053)×10^{-1}	(7.117 0.250 0.068)×10^{-2}
2.65 – 3.00	(4.632 0.038 0.041)×10^{0}	(3.064 0.100 0.043)×10^{-1}	(6.623 0.240 0.060)×10^{-2}
3.00 – 3.36	(3.819 0.031 0.034)×10^{0}	(2.335 0.080 0.034)×10^{-1}	(6.116 0.230 0.053)×10^{-2}
3.36 – 3.73	(3.044 0.025 0.027)×10^{0}	(1.894 0.066 0.029)×10^{-1}	(6.220 0.230 0.050)×10^{-2}
3.73 – 4.12	(2.542 0.021 0.023)×10^{0}	(1.440 0.053 0.023)×10^{-1}	(5.566 0.220 0.042)×10^{-2}
4.12 – 4.54	(2.033 0.017 0.019)×10^{0}	(1.146 0.043 0.019)×10^{-1}	(5.705 0.230 0.040)×10^{-2}
4.54 – 5.00	(1.631 0.014 0.016)×10^{0}	(9.032 0.340 0.150)×10^{-2}	(5.432 0.220 0.034)×10^{-2}
5.00 – 5.49	(1.302 0.011 0.013)×10^{0}	(7.365 0.280 0.130)×10^{-2}	(5.740 0.230 0.033)×10^{-2}
5.49 – 6.00	(1.017 0.009 0.011)×10^{0}	(5.324 0.220 0.095)×10^{-2}	(5.326 0.230 0.027)×10^{-2}
6.00 – 6.54	(8.182 0.075 0.089)×10^{-1}	(4.314 0.180 0.079)×10^{-2}	(4.970 0.230 0.022)×10^{-2}
6.54 – 7.10	(6.569 0.062 0.074)×10^{-1}	(3.575 0.150 0.067)×10^{-2}	(5.526 0.250 0.021)×10^{-2}
7.10 – 7.69	(5.162 0.052 0.060)×10^{-1}	(2.788 0.130 0.053)×10^{-2}	(5.410 0.260 0.019)×10^{-2}
7.69 – 8.30	(4.143 0.044 0.049)×10^{-1}	(2.216 0.110 0.043)×10^{-2}	(5.639 0.290 0.019)×10^{-2}
8.30 – 8.95	(3.302 0.037 0.040)×10^{-1}	(1.807 0.091 0.036)×10^{-2}	(5.469 0.300 0.019)×10^{-2}
8.95 – 9.62	(2.651 0.032 0.033)×10^{-1}	(1.474 0.079 0.030)×10^{-2}	(5.625 0.320 0.019)×10^{-2}
9.62 – 10.32	(2.117 0.027 0.027)×10^{-1}	(1.146 0.066 0.024)×10^{-2}	(5.535 0.340 0.018)×10^{-2}
10.32 – 11.04	(1.735 0.024 0.022)×10^{-1}	(1.029 0.060 0.022)×10^{-2}	(6.231 0.390 0.020)×10^{-2}
11.04 – 11.80	(1.400 0.020 0.018)×10^{-1}	(8.331 0.520 0.180)×10^{-3}	(5.907 0.400 0.019)×10^{-2}
11.80 – 12.59	(1.179 0.018 0.016)×10^{-1}	(6.716 0.440 0.150)×10^{-3}	(5.974 0.420 0.019)×10^{-2}
12.59 – 13.41	(9.155 0.150 0.120)×10^{-2}	(5.494 0.390 0.130)×10^{-3}	(5.933 0.460 0.019)×10^{-2}
13.41 – 14.25	(7.558 0.130 0.100)×10^{-2}	(4.824 0.350 0.110)×10^{-3}	(6.792 0.530 0.022)×10^{-2}
14.25 – 15.14	(6.452 0.120 0.089)×10^{-2}	(4.004 0.310 0.096)×10^{-3}	(6.468 0.540 0.021)×10^{-2}
15.14 – 16.05	(5.446 0.110 0.076)×10^{-2}	(3.306 0.270 0.080)×10^{-3}	(6.136 0.550 0.020)×10^{-2}
16.05 – 17.00	(4.408 0.092 0.062)×10^{-2}	(2.528 0.230 0.062)×10^{-3}	(5.409 0.550 0.018)×10^{-2}
17.00 – 17.98	(3.709 0.081 0.053)×10^{-2}	(2.325 0.210 0.058)×10^{-3}	(6.396 0.630 0.021)×10^{-2}
17.98 – 18.99	(3.011 0.071 0.044)×10^{-2}	(1.543 0.170 0.039)×10^{-3}	(5.039 0.610 0.017)×10^{-2}
18.99 – 20.04	(2.524 0.063 0.037)×10^{-2}	(1.705 0.170 0.043)×10^{-3}	(6.218 0.710 0.021)×10^{-2}
20.04 – 21.13	(2.125 0.056 0.031)×10^{-2}	(1.455 0.150 0.037)×10^{-3}	(7.030 0.810 0.024)×10^{-2}
21.13 – 22.25	(1.756 0.049 0.026)×10^{-2}	(1.266 0.140 0.032)×10^{-3}	(6.717 0.830 0.023)×10^{-2}
22.25 – 23.42	(1.520 0.044 0.023)×10^{-2}	(9.364 1.100 0.240)×10^{-4}	(6.265 0.830 0.021)×10^{-2}
23.42 – 24.62	(1.258 0.039 0.019)×10^{-2}	(8.625 1.000 0.220)×10^{-4}	(7.109 0.950 0.024)×10^{-2}
24.62 – 25.90	(1.028 0.033 0.016)×10^{-2}	(7.524 0.930 0.190)×10^{-4}	(6.547 0.940 0.022)×10^{-2}

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TABLE SM XXXI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(8.582\ 0.290\ 0.130)\times10^{-3}$	$(8.037\ 0.920\ 0.210)\times10^{-4}$	$(9.124\ 1.200\ 0.031)\times10^{-2}$
27.25 – 28.68	$(7.861\ 0.270\ 0.120)\times10^{-3}$	$(5.809\ 0.760\ 0.150)\times10^{-4}$	$(7.340\ 1.100\ 0.025)\times10^{-2}$
28.68 – 30.21	$(6.970\ 0.240\ 0.110)\times10^{-3}$	$(5.567\ 0.710\ 0.140)\times10^{-4}$	$(7.810\ 1.100\ 0.027)\times10^{-2}$
30.21 – 31.82	$(5.487\ 0.210\ 0.087)\times10^{-3}$	$(4.788\ 0.640\ 0.120)\times10^{-4}$	$(8.712\ 1.300\ 0.031)\times10^{-2}$
31.82 – 33.53	$(4.599\ 0.180\ 0.074)\times10^{-3}$	$(4.444\ 0.580\ 0.110)\times10^{-4}$	$(9.625\ 1.400\ 0.034)\times10^{-2}$
33.53 – 35.36	$(3.828\ 0.160\ 0.062)\times10^{-3}$	$(3.354\ 0.490\ 0.086)\times10^{-4}$	$(8.276\ 1.400\ 0.030)\times10^{-2}$
35.36 – 37.31	$(3.434\ 0.150\ 0.056)\times10^{-3}$	$(2.823\ 0.440\ 0.072)\times10^{-4}$	$(9.068\ 1.500\ 0.033)\times10^{-2}$
37.31 – 39.39	$(2.919\ 0.130\ 0.048)\times10^{-3}$	$(1.985\ 0.360\ 0.051)\times10^{-4}$	$(6.903\ 1.400\ 0.026)\times10^{-2}$
39.39 – 41.61	$(2.644\ 0.120\ 0.044)\times10^{-3}$	$(2.530\ 0.390\ 0.065)\times10^{-4}$	$(9.868\ 1.700\ 0.038)\times10^{-2}$
41.61 – 44.00	$(1.952\ 0.100\ 0.033)\times10^{-3}$	$(2.086\ 0.340\ 0.053)\times10^{-4}$	$(9.957\ 1.900\ 0.039)\times10^{-2}$
44.00 – 46.57	$(1.732\ 0.092\ 0.030)\times10^{-3}$	$(1.467\ 0.280\ 0.038)\times10^{-4}$	$(7.568\ 1.700\ 0.031)\times10^{-2}$
46.57 – 49.33	$(1.331\ 0.078\ 0.023)\times10^{-3}$	$(1.193\ 0.260\ 0.031)\times10^{-4}$	$(7.905\ 2.100\ 0.033)\times10^{-2}$

TABLE SM XXXII: For Bartels Rotation 2456 (August 02, 2013 – August 28, 2013), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.263 0.022 0.021)×10^{1}	(1.296 0.073 0.023)×10^{0}	(9.793 0.610 0.110)×10^{-2}
1.22 – 1.46	(1.139 0.016 0.017)×10^{1}	(1.056 0.051 0.016)×10^{0}	(9.215 0.480 0.100)×10^{-2}
1.46 – 1.72	(1.006 0.011 0.013)×10^{1}	(8.338 0.340 0.120)×10^{-1}	(8.264 0.360 0.088)×10^{-2}
1.72 – 2.00	(8.276 0.081 0.093)×10^{0}	(6.019 0.230 0.081)×10^{-1}	(7.306 0.300 0.075)×10^{-2}
2.00 – 2.31	(6.880 0.060 0.069)×10^{0}	(5.057 0.170 0.067)×10^{-1}	(7.266 0.270 0.072)×10^{-2}
2.31 – 2.65	(5.732 0.046 0.053)×10^{0}	(3.938 0.130 0.053)×10^{-1}	(6.791 0.240 0.065)×10^{-2}
2.65 – 3.00	(4.565 0.037 0.040)×10^{0}	(2.972 0.097 0.042)×10^{-1}	(6.542 0.230 0.060)×10^{-2}
3.00 – 3.36	(3.803 0.030 0.034)×10^{0}	(2.330 0.079 0.034)×10^{-1}	(6.333 0.230 0.055)×10^{-2}
3.36 – 3.73	(3.066 0.025 0.027)×10^{0}	(1.899 0.065 0.029)×10^{-1}	(6.053 0.230 0.049)×10^{-2}
3.73 – 4.12	(2.558 0.021 0.023)×10^{0}	(1.490 0.053 0.024)×10^{-1}	(5.990 0.220 0.045)×10^{-2}
4.12 – 4.54	(2.016 0.017 0.019)×10^{0}	(1.182 0.043 0.019)×10^{-1}	(5.916 0.230 0.041)×10^{-2}
4.54 – 5.00	(1.660 0.014 0.016)×10^{0}	(9.134 0.340 0.150)×10^{-2}	(5.411 0.220 0.034)×10^{-2}
5.00 – 5.49	(1.308 0.011 0.013)×10^{0}	(7.229 0.270 0.130)×10^{-2}	(5.677 0.230 0.032)×10^{-2}
5.49 – 6.00	(1.035 0.009 0.011)×10^{0}	(6.057 0.230 0.110)×10^{-2}	(6.020 0.240 0.030)×10^{-2}
6.00 – 6.54	(8.267 0.074 0.090)×10^{-1}	(4.279 0.180 0.078)×10^{-2}	(5.288 0.230 0.023)×10^{-2}
6.54 – 7.10	(6.697 0.063 0.075)×10^{-1}	(3.518 0.150 0.066)×10^{-2}	(5.278 0.240 0.020)×10^{-2}
7.10 – 7.69	(5.167 0.052 0.060)×10^{-1}	(2.846 0.130 0.054)×10^{-2}	(5.646 0.270 0.020)×10^{-2}
7.69 – 8.30	(4.187 0.044 0.050)×10^{-1}	(2.155 0.110 0.042)×10^{-2}	(5.268 0.270 0.018)×10^{-2}
8.30 – 8.95	(3.421 0.038 0.041)×10^{-1}	(1.873 0.092 0.038)×10^{-2}	(5.677 0.300 0.019)×10^{-2}
8.95 – 9.62	(2.702 0.032 0.033)×10^{-1}	(1.423 0.077 0.029)×10^{-2}	(5.161 0.310 0.017)×10^{-2}
9.62 – 10.32	(2.176 0.027 0.027)×10^{-1}	(1.298 0.070 0.027)×10^{-2}	(5.702 0.340 0.019)×10^{-2}
10.32 – 11.04	(1.734 0.024 0.022)×10^{-1}	(9.924 0.580 0.220)×10^{-3}	(6.182 0.390 0.020)×10^{-2}
11.04 – 11.80	(1.434 0.020 0.019)×10^{-1}	(7.759 0.490 0.170)×10^{-3}	(5.426 0.380 0.017)×10^{-2}
11.80 – 12.59	(1.197 0.018 0.016)×10^{-1}	(6.600 0.440 0.150)×10^{-3}	(5.604 0.400 0.018)×10^{-2}
12.59 – 13.41	(9.273 0.150 0.120)×10^{-2}	(5.741 0.390 0.130)×10^{-3}	(6.011 0.460 0.019)×10^{-2}
13.41 – 14.25	(7.816 0.140 0.110)×10^{-2}	(4.582 0.340 0.110)×10^{-3}	(5.786 0.480 0.019)×10^{-2}
14.25 – 15.14	(6.614 0.120 0.091)×10^{-2}	(4.016 0.310 0.096)×10^{-3}	(6.105 0.510 0.020)×10^{-2}
15.14 – 16.05	(5.269 0.100 0.074)×10^{-2}	(2.697 0.240 0.066)×10^{-3}	(5.024 0.510 0.016)×10^{-2}
16.05 – 17.00	(4.439 0.092 0.063)×10^{-2}	(2.548 0.230 0.063)×10^{-3}	(5.847 0.580 0.019)×10^{-2}
17.00 – 17.98	(3.578 0.080 0.051)×10^{-2}	(2.136 0.200 0.053)×10^{-3}	(6.336 0.640 0.021)×10^{-2}
17.98 – 18.99	(3.003 0.071 0.043)×10^{-2}	(1.910 0.190 0.048)×10^{-3}	(6.622 0.710 0.022)×10^{-2}
18.99 – 20.04	(2.549 0.063 0.037)×10^{-2}	(2.022 0.190 0.051)×10^{-3}	(7.722 0.800 0.026)×10^{-2}
20.04 – 21.13	(2.070 0.055 0.030)×10^{-2}	(1.409 0.150 0.036)×10^{-3}	(6.848 0.810 0.023)×10^{-2}
21.13 – 22.25	(1.830 0.050 0.027)×10^{-2}	(1.169 0.130 0.030)×10^{-3}	(6.521 0.800 0.022)×10^{-2}
22.25 – 23.42	(1.508 0.044 0.023)×10^{-2}	(1.254 0.130 0.032)×10^{-3}	(8.724 0.990 0.030)×10^{-2}
23.42 – 24.62	(1.253 0.038 0.019)×10^{-2}	(9.279 1.100 0.240)×10^{-4}	(7.494 0.970 0.026)×10^{-2}
24.62 – 25.90	(1.068 0.034 0.016)×10^{-2}	(6.589 0.860 0.170)×10^{-4}	(6.489 0.920 0.022)×10^{-2}

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TABLE SM XXXII – *Continued from previous page*

Energy	Φ_{e^-}	$\sigma_{\rm stat}$	$\sigma_{\rm syst}$	Φ_{e^+}	$\sigma_{\rm stat}$	$\sigma_{\rm syst}$	R_e	$\sigma_{\rm stat}$	$\sigma_{\rm syst}$
25.90 – 27.25	8.945	0.300	0.140)$\times10^{-3}$	6.577	0.840	0.170)$\times10^{-4}$	7.039	1.000	0.024)$\times10^{-2}$
27.25 – 28.68	7.789	0.270	0.120)$\times10^{-3}$	6.168	0.780	0.160)$\times10^{-4}$	7.756	1.100	0.027)$\times10^{-2}$
28.68 – 30.21	6.475	0.230	0.100)$\times10^{-3}$	4.942	0.670	0.130)$\times10^{-4}$	7.854	1.200	0.027)$\times10^{-2}$
30.21 – 31.82	5.361	0.200	0.085)$\times10^{-3}$	4.867	0.630	0.120)$\times10^{-4}$	9.734	1.400	0.034)$\times10^{-2}$
31.82 – 33.53	4.900	0.190	0.078)$\times10^{-3}$	3.544	0.520	0.091)$\times10^{-4}$	7.867	1.200	0.028)$\times10^{-2}$
33.53 – 35.36	4.433	0.170	0.072)$\times10^{-3}$	2.526	0.430	0.065)$\times10^{-4}$	5.510	1.000	0.020)$\times10^{-2}$
35.36 – 37.31	3.198	0.140	0.052)$\times10^{-3}$	2.237	0.390	0.057)$\times10^{-4}$	7.887	1.400	0.029)$\times10^{-2}$
37.31 – 39.39	2.927	0.130	0.048)$\times10^{-3}$	2.508	0.410	0.064)$\times10^{-4}$	8.706	1.600	0.033)$\times10^{-2}$
39.39 – 41.61	2.500	0.120	0.042)$\times10^{-3}$	2.251	0.370	0.058)$\times10^{-4}$	8.922	1.600	0.034)$\times10^{-2}$
41.61 – 44.00	2.038	0.100	0.034)$\times10^{-3}$	1.698	0.310	0.044)$\times10^{-4}$	8.379	1.700	0.033)$\times10^{-2}$
44.00 – 46.57	1.582	0.088	0.027)$\times10^{-3}$	1.665	0.290	0.043)$\times10^{-4}$	10.33	2.100	0.042)$\times10^{-2}$
46.57 – 49.33	1.348	0.079	0.023)$\times10^{-3}$	1.118	0.240	0.029)$\times10^{-4}$	8.492	2.000	0.036)$\times10^{-2}$

TABLE SM XXXIII: For Bartels Rotation 2457 (August 29, 2013 – September 24, 2013), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.166 0.022 0.020)$\times10^{1}$	(1.081 0.070 0.019)$\times10^{0}$	(9.276 0.640 0.100)$\times10^{-2}$
1.22 – 1.46	(1.033 0.016 0.015)$\times10^{1}$	(9.339 0.500 0.140)$\times10^{-1}$	(9.254 0.530 0.100)$\times10^{-2}$
1.46 – 1.72	(9.316 0.110 0.120)$\times10^{0}$	(8.018 0.350 0.110)$\times10^{-1}$	(8.290 0.400 0.088)$\times10^{-2}$
1.72 – 2.00	(7.753 0.082 0.087)$\times10^{0}$	(5.785 0.230 0.077)$\times10^{-1}$	(7.331 0.320 0.075)$\times10^{-2}$
2.00 – 2.31	(6.600 0.062 0.066)$\times10^{0}$	(4.441 0.170 0.059)$\times10^{-1}$	(6.690 0.270 0.067)$\times10^{-2}$
2.31 – 2.65	(5.416 0.047 0.050)$\times10^{0}$	(3.635 0.130 0.049)$\times10^{-1}$	(6.719 0.250 0.064)$\times10^{-2}$
2.65 – 3.00	(4.535 0.038 0.040)$\times10^{0}$	(2.977 0.100 0.042)$\times10^{-1}$	(6.644 0.240 0.060)$\times10^{-2}$
3.00 – 3.36	(3.737 0.032 0.033)$\times10^{0}$	(2.293 0.082 0.034)$\times10^{-1}$	(6.212 0.240 0.054)$\times10^{-2}$
3.36 – 3.73	(3.031 0.026 0.027)$\times10^{0}$	(1.766 0.066 0.027)$\times10^{-1}$	(5.902 0.230 0.048)$\times10^{-2}$
3.73 – 4.12	(2.477 0.021 0.022)$\times10^{0}$	(1.447 0.054 0.023)$\times10^{-1}$	(6.009 0.240 0.045)$\times10^{-2}$
4.12 – 4.54	(2.032 0.018 0.019)$\times10^{0}$	(1.180 0.044 0.019)$\times10^{-1}$	(5.753 0.230 0.040)$\times10^{-2}$
4.54 – 5.00	(1.609 0.014 0.015)$\times10^{0}$	(9.488 0.360 0.160)$\times10^{-2}$	(5.841 0.240 0.037)$\times10^{-2}$
5.00 – 5.49	(1.285 0.011 0.013)$\times10^{0}$	(6.981 0.280 0.120)$\times10^{-2}$	(5.544 0.240 0.031)$\times10^{-2}$
5.49 – 6.00	(1.026 0.009 0.011)$\times10^{0}$	(5.545 0.230 0.099)$\times10^{-2}$	(5.609 0.240 0.028)$\times10^{-2}$
6.00 – 6.54	(8.309 0.077 0.090)$\times10^{-1}$	(4.685 0.190 0.086)$\times10^{-2}$	(5.686 0.250 0.025)$\times10^{-2}$
6.54 – 7.10	(6.582 0.064 0.074)$\times10^{-1}$	(3.562 0.160 0.066)$\times10^{-2}$	(5.617 0.260 0.022)$\times10^{-2}$
7.10 – 7.69	(5.359 0.054 0.062)$\times10^{-1}$	(2.838 0.130 0.054)$\times10^{-2}$	(5.402 0.270 0.019)$\times10^{-2}$
7.69 – 8.30	(4.177 0.045 0.050)$\times10^{-1}$	(2.271 0.110 0.044)$\times10^{-2}$	(5.563 0.290 0.019)$\times10^{-2}$
8.30 – 8.95	(3.411 0.039 0.041)$\times10^{-1}$	(1.920 0.096 0.039)$\times10^{-2}$	(5.572 0.300 0.019)$\times10^{-2}$
8.95 – 9.62	(2.682 0.033 0.033)$\times10^{-1}$	(1.526 0.082 0.031)$\times10^{-2}$	(5.548 0.330 0.018)$\times10^{-2}$
9.62 – 10.32	(2.174 0.028 0.027)$\times10^{-1}$	(1.280 0.072 0.027)$\times10^{-2}$	(5.807 0.350 0.019)$\times10^{-2}$
10.32 – 11.04	(1.765 0.024 0.023)$\times10^{-1}$	(1.068 0.062 0.023)$\times10^{-2}$	(5.730 0.380 0.019)$\times10^{-2}$
11.04 – 11.80	(1.442 0.021 0.019)$\times10^{-1}$	(8.541 0.530 0.190)$\times10^{-3}$	(5.915 0.410 0.019)$\times10^{-2}$
11.80 – 12.59	(1.185 0.018 0.016)$\times10^{-1}$	(6.792 0.460 0.150)$\times10^{-3}$	(5.831 0.430 0.019)$\times10^{-2}$
12.59 – 13.41	(9.596 0.160 0.130)$\times10^{-2}$	(5.607 0.400 0.130)$\times10^{-3}$	(5.705 0.450 0.018)$\times10^{-2}$
13.41 – 14.25	(7.698 0.140 0.100)$\times10^{-2}$	(4.399 0.340 0.100)$\times10^{-3}$	(5.767 0.500 0.019)$\times10^{-2}$
14.25 – 15.14	(6.299 0.120 0.087)$\times10^{-2}$	(4.231 0.320 0.100)$\times10^{-3}$	(6.094 0.530 0.020)$\times10^{-2}$
15.14 – 16.05	(5.121 0.110 0.072)$\times10^{-2}$	(3.346 0.280 0.081)$\times10^{-3}$	(6.382 0.590 0.021)$\times10^{-2}$
16.05 – 17.00	(4.431 0.094 0.063)$\times10^{-2}$	(2.838 0.250 0.070)$\times10^{-3}$	(6.771 0.640 0.022)$\times10^{-2}$
17.00 – 17.98	(3.799 0.085 0.054)$\times10^{-2}$	(2.414 0.220 0.060)$\times10^{-3}$	(6.332 0.640 0.021)$\times10^{-2}$
17.98 – 18.99	(2.995 0.073 0.043)$\times10^{-2}$	(2.246 0.210 0.056)$\times10^{-3}$	(6.768 0.720 0.023)$\times10^{-2}$
18.99 – 20.04	(2.608 0.066 0.038)$\times10^{-2}$	(1.734 0.170 0.044)$\times10^{-3}$	(6.320 0.710 0.021)$\times10^{-2}$
20.04 – 21.13	(2.135 0.057 0.031)$\times10^{-2}$	(1.654 0.160 0.042)$\times10^{-3}$	(7.350 0.830 0.025)$\times10^{-2}$
21.13 – 22.25	(1.770 0.051 0.026)$\times10^{-2}$	(1.095 0.130 0.028)$\times10^{-3}$	(6.567 0.850 0.022)$\times10^{-2}$
22.25 – 23.42	(1.574 0.046 0.024)$\times10^{-2}$	(1.146 0.130 0.029)$\times10^{-3}$	(7.437 0.910 0.025)$\times10^{-2}$
23.42 – 24.62	(1.292 0.040 0.020)$\times10^{-2}$	(9.964 1.200 0.260)$\times10^{-4}$	(7.496 0.990 0.026)$\times10^{-2}$
24.62 – 25.90	(1.096 0.035 0.017)$\times10^{-2}$	(7.461 0.950 0.190)$\times10^{-4}$	(7.137 0.980 0.024)$\times10^{-2}$

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TABLE SM XXXIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.246\ 0.310\ 0.140)\times10^{-3}$	$(6.290\ 0.830\ 0.160)\times10^{-4}$	$(7.580\ 1.100\ 0.026)\times10^{-2}$
27.25 – 28.68	$(7.990\ 0.280\ 0.120)\times10^{-3}$	$(5.514\ 0.760\ 0.140)\times10^{-4}$	$(6.839\ 1.100\ 0.024)\times10^{-2}$
28.68 – 30.21	$(6.970\ 0.250\ 0.110)\times10^{-3}$	$(4.862\ 0.680\ 0.120)\times10^{-4}$	$(7.411\ 1.100\ 0.026)\times10^{-2}$
30.21 – 31.82	$(5.578\ 0.210\ 0.088)\times10^{-3}$	$(4.124\ 0.600\ 0.110)\times10^{-4}$	$(6.840\ 1.200\ 0.024)\times10^{-2}$
31.82 – 33.53	$(4.880\ 0.190\ 0.078)\times10^{-3}$	$(4.208\ 0.590\ 0.110)\times10^{-4}$	$(8.461\ 1.300\ 0.030)\times10^{-2}$
33.53 – 35.36	$(3.828\ 0.160\ 0.062)\times10^{-3}$	$(3.152\ 0.490\ 0.081)\times10^{-4}$	$(8.691\ 1.500\ 0.031)\times10^{-2}$
35.36 – 37.31	$(3.393\ 0.150\ 0.055)\times10^{-3}$	$(3.465\ 0.490\ 0.089)\times10^{-4}$	$(11.36\ 1.800\ 0.042)\times10^{-2}$
37.31 – 39.39	$(2.852\ 0.130\ 0.047)\times10^{-3}$	$(2.901\ 0.440\ 0.074)\times10^{-4}$	$(9.604\ 1.700\ 0.036)\times10^{-2}$
39.39 – 41.61	$(2.212\ 0.110\ 0.037)\times10^{-3}$	$(2.053\ 0.360\ 0.053)\times10^{-4}$	$(9.096\ 1.800\ 0.035)\times10^{-2}$
41.61 – 44.00	$(2.006\ 0.110\ 0.034)\times10^{-3}$	$(1.925\ 0.340\ 0.049)\times10^{-4}$	$(9.221\ 1.800\ 0.036)\times10^{-2}$
44.00 – 46.57	$(1.722\ 0.094\ 0.029)\times10^{-3}$	$(1.793\ 0.310\ 0.046)\times10^{-4}$	$(12.13\ 2.300\ 0.049)\times10^{-2}$
46.57 – 49.33	$(1.433\ 0.083\ 0.025)\times10^{-3}$	$(1.382\ 0.260\ 0.036)\times10^{-4}$	$(10.03\ 2.200\ 0.042)\times10^{-2}$

TABLE SM XXXIV: For Bartels Rotation 2458 (September 25, 2013 – October 21, 2013), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.127 0.021 0.019)×10^{1}	(1.145 0.070 0.021)×10^{0}	(10.25 0.680 0.120)×10^{-2}
1.22 – 1.46	(1.028 0.016 0.015)×10^{1}	(9.945 0.510 0.150)×10^{-1}	(9.241 0.520 0.100)×10^{-2}
1.46 – 1.72	(9.131 0.110 0.120)×10^{0}	(8.332 0.350 0.120)×10^{-1}	(9.094 0.410 0.097)×10^{-2}
1.72 – 2.00	(7.622 0.080 0.086)×10^{0}	(6.026 0.230 0.081)×10^{-1}	(7.774 0.330 0.080)×10^{-2}
2.00 – 2.31	(6.542 0.060 0.065)×10^{0}	(4.900 0.170 0.065)×10^{-1}	(7.522 0.280 0.075)×10^{-2}
2.31 – 2.65	(5.488 0.046 0.050)×10^{0}	(3.969 0.130 0.053)×10^{-1}	(7.330 0.260 0.070)×10^{-2}
2.65 – 3.00	(4.554 0.038 0.040)×10^{0}	(3.039 0.100 0.042)×10^{-1}	(6.652 0.240 0.061)×10^{-2}
3.00 – 3.36	(3.696 0.031 0.033)×10^{0}	(2.376 0.081 0.035)×10^{-1}	(6.502 0.240 0.056)×10^{-2}
3.36 – 3.73	(3.087 0.026 0.028)×10^{0}	(1.839 0.066 0.028)×10^{-1}	(6.047 0.230 0.049)×10^{-2}
3.73 – 4.12	(2.527 0.021 0.023)×10^{0}	(1.478 0.054 0.023)×10^{-1}	(5.792 0.230 0.044)×10^{-2}
4.12 – 4.54	(2.056 0.017 0.019)×10^{0}	(1.231 0.044 0.020)×10^{-1}	(5.966 0.230 0.041)×10^{-2}
4.54 – 5.00	(1.664 0.014 0.016)×10^{0}	(9.687 0.360 0.160)×10^{-2}	(5.852 0.230 0.037)×10^{-2}
5.00 – 5.49	(1.341 0.011 0.013)×10^{0}	(7.452 0.280 0.130)×10^{-2}	(5.680 0.230 0.032)×10^{-2}
5.49 – 6.00	(1.042 0.009 0.011)×10^{0}	(5.860 0.230 0.100)×10^{-2}	(5.826 0.240 0.029)×10^{-2}
6.00 – 6.54	(8.396 0.076 0.091)×10^{-1}	(4.789 0.190 0.087)×10^{-2}	(5.927 0.250 0.026)×10^{-2}
6.54 – 7.10	(6.679 0.064 0.075)×10^{-1}	(3.607 0.150 0.067)×10^{-2}	(5.617 0.260 0.022)×10^{-2}
7.10 – 7.69	(5.241 0.053 0.061)×10^{-1}	(2.857 0.130 0.055)×10^{-2}	(5.377 0.260 0.019)×10^{-2}
7.69 – 8.30	(4.350 0.046 0.052)×10^{-1}	(2.581 0.120 0.051)×10^{-2}	(6.076 0.290 0.021)×10^{-2}
8.30 – 8.95	(3.478 0.038 0.042)×10^{-1}	(1.877 0.094 0.038)×10^{-2}	(5.489 0.290 0.019)×10^{-2}
8.95 – 9.62	(2.816 0.033 0.035)×10^{-1}	(1.585 0.083 0.033)×10^{-2}	(5.705 0.320 0.019)×10^{-2}
9.62 – 10.32	(2.224 0.028 0.028)×10^{-1}	(1.257 0.070 0.027)×10^{-2}	(5.661 0.340 0.019)×10^{-2}
10.32 – 11.04	(1.736 0.024 0.022)×10^{-1}	(1.038 0.061 0.022)×10^{-2}	(5.828 0.380 0.019)×10^{-2}
11.04 – 11.80	(1.477 0.021 0.019)×10^{-1}	(7.614 0.500 0.170)×10^{-3}	(5.120 0.370 0.016)×10^{-2}
11.80 – 12.59	(1.197 0.018 0.016)×10^{-1}	(6.612 0.450 0.150)×10^{-3}	(5.226 0.400 0.017)×10^{-2}
12.59 – 13.41	(9.436 0.160 0.130)×10^{-2}	(5.704 0.400 0.130)×10^{-3}	(5.901 0.460 0.019)×10^{-2}
13.41 – 14.25	(7.994 0.140 0.110)×10^{-2}	(4.910 0.360 0.120)×10^{-3}	(6.237 0.490 0.020)×10^{-2}
14.25 – 15.14	(6.599 0.120 0.091)×10^{-2}	(4.062 0.310 0.097)×10^{-3}	(6.288 0.530 0.020)×10^{-2}
15.14 – 16.05	(5.365 0.110 0.075)×10^{-2}	(3.109 0.270 0.076)×10^{-3}	(5.680 0.540 0.018)×10^{-2}
16.05 – 17.00	(4.270 0.091 0.060)×10^{-2}	(3.105 0.250 0.076)×10^{-3}	(7.262 0.660 0.024)×10^{-2}
17.00 – 17.98	(3.647 0.082 0.052)×10^{-2}	(2.082 0.200 0.052)×10^{-3}	(5.777 0.620 0.019)×10^{-2}
17.98 – 18.99	(3.150 0.074 0.046)×10^{-2}	(1.948 0.190 0.049)×10^{-3}	(6.599 0.680 0.022)×10^{-2}
18.99 – 20.04	(2.635 0.065 0.038)×10^{-2}	(1.912 0.180 0.048)×10^{-3}	(7.103 0.760 0.024)×10^{-2}
20.04 – 21.13	(2.137 0.057 0.031)×10^{-2}	(1.487 0.160 0.038)×10^{-3}	(6.591 0.780 0.022)×10^{-2}
21.13 – 22.25	(1.845 0.051 0.027)×10^{-2}	(1.385 0.150 0.035)×10^{-3}	(7.115 0.850 0.024)×10^{-2}
22.25 – 23.42	(1.585 0.045 0.024)×10^{-2}	(1.113 0.120 0.028)×10^{-3}	(6.733 0.850 0.023)×10^{-2}
23.42 – 24.62	(1.294 0.040 0.020)×10^{-2}	(8.335 1.000 0.210)×10^{-4}	(6.082 0.860 0.021)×10^{-2}
24.62 – 25.90	(1.134 0.035 0.017)×10^{-2}	(8.298 0.990 0.210)×10^{-4}	(6.805 0.920 0.023)×10^{-2}

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TABLE SM XXXIV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.415 0.310 0.150)$\times10^{-3}$	(7.908 0.930 0.200)$\times10^{-4}$	(7.813 1.100 0.027)$\times10^{-2}$
27.25 – 28.68	(7.857 0.270 0.120)$\times10^{-3}$	(5.407 0.740 0.140)$\times10^{-4}$	(6.447 1.000 0.022)$\times10^{-2}$
28.68 – 30.21	(7.128 0.250 0.110)$\times10^{-3}$	(5.326 0.700 0.140)$\times10^{-4}$	(8.046 1.100 0.028)$\times10^{-2}$
30.21 – 31.82	(5.601 0.210 0.089)$\times10^{-3}$	(4.138 0.610 0.110)$\times10^{-4}$	(6.877 1.100 0.024)$\times10^{-2}$
31.82 – 33.53	(5.101 0.200 0.082)$\times10^{-3}$	(3.622 0.540 0.093)$\times10^{-4}$	(7.121 1.200 0.025)$\times10^{-2}$
33.53 – 35.36	(4.013 0.170 0.065)$\times10^{-3}$	(3.978 0.540 0.100)$\times10^{-4}$	(10.14 1.600 0.036)$\times10^{-2}$
35.36 – 37.31	(3.540 0.150 0.058)$\times10^{-3}$	(2.738 0.430 0.070)$\times10^{-4}$	(7.843 1.400 0.029)$\times10^{-2}$
37.31 – 39.39	(3.020 0.140 0.050)$\times10^{-3}$	(2.065 0.380 0.053)$\times10^{-4}$	(7.608 1.500 0.028)$\times10^{-2}$
39.39 – 41.61	(2.657 0.120 0.044)$\times10^{-3}$	(2.106 0.360 0.054)$\times10^{-4}$	(9.050 1.600 0.035)$\times10^{-2}$
41.61 – 44.00	(2.014 0.100 0.034)$\times10^{-3}$	(1.253 0.270 0.032)$\times10^{-4}$	(7.228 1.600 0.028)$\times10^{-2}$
44.00 – 46.57	(1.571 0.089 0.027)$\times10^{-3}$	(1.657 0.300 0.042)$\times10^{-4}$	(10.50 2.100 0.043)$\times10^{-2}$
46.57 – 49.33	(1.350 0.080 0.023)$\times10^{-3}$	(1.521 0.280 0.039)$\times10^{-4}$	(9.529 2.100 0.040)$\times10^{-2}$

TABLE SM XXXV: For Bartels Rotation 2459 (October 22, 2013 – November 17, 2013), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.099 0.022 0.019)$\times10^{1}$	(1.000 0.071 0.018)$\times10^{0}$	(9.036 0.690 0.100)$\times10^{-2}$
1.22 – 1.46	(9.966 0.170 0.150)$\times10^{0}$	(9.245 0.520 0.140)$\times10^{-1}$	(8.984 0.560 0.099)$\times10^{-2}$
1.46 – 1.72	(8.914 0.120 0.110)$\times10^{0}$	(7.223 0.350 0.100)$\times10^{-1}$	(7.902 0.410 0.084)$\times10^{-2}$
1.72 – 2.00	(7.473 0.085 0.084)$\times10^{0}$	(6.199 0.250 0.083)$\times10^{-1}$	(7.911 0.360 0.081)$\times10^{-2}$
2.00 – 2.31	(6.475 0.064 0.065)$\times10^{0}$	(4.771 0.180 0.063)$\times10^{-1}$	(7.390 0.300 0.074)$\times10^{-2}$
2.31 – 2.65	(5.430 0.050 0.050)$\times10^{0}$	(3.957 0.140 0.053)$\times10^{-1}$	(7.161 0.280 0.069)$\times10^{-2}$
2.65 – 3.00	(4.531 0.040 0.040)$\times10^{0}$	(3.037 0.110 0.042)$\times10^{-1}$	(6.798 0.260 0.062)$\times10^{-2}$
3.00 – 3.36	(3.787 0.033 0.034)$\times10^{0}$	(2.390 0.087 0.035)$\times10^{-1}$	(6.312 0.250 0.054)$\times10^{-2}$
3.36 – 3.73	(3.012 0.027 0.027)$\times10^{0}$	(1.898 0.071 0.029)$\times10^{-1}$	(6.172 0.250 0.050)$\times10^{-2}$
3.73 – 4.12	(2.511 0.023 0.023)$\times10^{0}$	(1.556 0.059 0.025)$\times10^{-1}$	(6.128 0.250 0.046)$\times10^{-2}$
4.12 – 4.54	(2.039 0.018 0.019)$\times10^{0}$	(1.264 0.048 0.021)$\times10^{-1}$	(5.964 0.250 0.041)$\times10^{-2}$
4.54 – 5.00	(1.669 0.015 0.016)$\times10^{0}$	(9.062 0.370 0.150)$\times10^{-2}$	(5.499 0.240 0.035)$\times10^{-2}$
5.00 – 5.49	(1.323 0.012 0.013)$\times10^{0}$	(7.656 0.310 0.130)$\times10^{-2}$	(6.091 0.260 0.035)$\times10^{-2}$
5.49 – 6.00	(1.042 0.010 0.011)$\times10^{0}$	(6.409 0.260 0.110)$\times10^{-2}$	(6.250 0.270 0.031)$\times10^{-2}$
6.00 – 6.54	(8.248 0.081 0.090)$\times10^{-1}$	(4.721 0.200 0.086)$\times10^{-2}$	(5.678 0.260 0.025)$\times10^{-2}$
6.54 – 7.10	(6.489 0.067 0.073)$\times10^{-1}$	(3.402 0.160 0.063)$\times10^{-2}$	(5.379 0.270 0.021)$\times10^{-2}$
7.10 – 7.69	(5.346 0.057 0.062)$\times10^{-1}$	(2.799 0.140 0.053)$\times10^{-2}$	(5.156 0.270 0.018)$\times10^{-2}$
7.69 – 8.30	(4.195 0.048 0.050)$\times10^{-1}$	(2.299 0.120 0.045)$\times10^{-2}$	(5.562 0.310 0.019)$\times10^{-2}$
8.30 – 8.95	(3.356 0.040 0.041)$\times10^{-1}$	(1.773 0.098 0.036)$\times10^{-2}$	(5.269 0.310 0.018)$\times10^{-2}$
8.95 – 9.62	(2.659 0.034 0.033)$\times10^{-1}$	(1.779 0.093 0.037)$\times10^{-2}$	(6.742 0.380 0.022)$\times10^{-2}$
9.62 – 10.32	(2.225 0.030 0.028)$\times10^{-1}$	(1.222 0.074 0.026)$\times10^{-2}$	(5.752 0.370 0.019)$\times10^{-2}$
10.32 – 11.04	(1.756 0.026 0.023)$\times10^{-1}$	(9.461 0.620 0.210)$\times10^{-3}$	(5.762 0.400 0.019)$\times10^{-2}$
11.04 – 11.80	(1.443 0.022 0.019)$\times10^{-1}$	(8.940 0.580 0.200)$\times10^{-3}$	(6.113 0.430 0.020)$\times10^{-2}$
11.80 – 12.59	(1.183 0.019 0.016)$\times10^{-1}$	(7.577 0.510 0.170)$\times10^{-3}$	(6.384 0.470 0.020)$\times10^{-2}$
12.59 – 13.41	(9.923 0.170 0.130)$\times10^{-2}$	(6.061 0.440 0.140)$\times10^{-3}$	(5.970 0.480 0.019)$\times10^{-2}$
13.41 – 14.25	(7.828 0.150 0.110)$\times10^{-2}$	(4.818 0.380 0.110)$\times10^{-3}$	(6.163 0.540 0.020)$\times10^{-2}$
14.25 – 15.14	(6.610 0.130 0.091)$\times10^{-2}$	(3.886 0.330 0.093)$\times10^{-3}$	(5.996 0.550 0.019)$\times10^{-2}$
15.14 – 16.05	(5.309 0.110 0.074)$\times10^{-2}$	(3.238 0.290 0.079)$\times10^{-3}$	(5.890 0.590 0.019)$\times10^{-2}$
16.05 – 17.00	(4.249 0.097 0.060)$\times10^{-2}$	(2.676 0.250 0.066)$\times10^{-3}$	(6.205 0.650 0.020)$\times10^{-2}$
17.00 – 17.98	(3.650 0.088 0.052)$\times10^{-2}$	(2.181 0.220 0.054)$\times10^{-3}$	(5.786 0.660 0.019)$\times10^{-2}$
17.98 – 18.99	(3.091 0.078 0.045)$\times10^{-2}$	(1.919 0.200 0.048)$\times10^{-3}$	(6.045 0.720 0.020)$\times10^{-2}$
18.99 – 20.04	(2.589 0.069 0.038)$\times10^{-2}$	(1.704 0.180 0.043)$\times10^{-3}$	(6.923 0.810 0.023)$\times10^{-2}$
20.04 – 21.13	(2.241 0.062 0.033)$\times10^{-2}$	(1.473 0.170 0.037)$\times10^{-3}$	(6.813 0.830 0.023)$\times10^{-2}$
21.13 – 22.25	(1.805 0.054 0.027)$\times10^{-2}$	(1.009 0.130 0.026)$\times10^{-3}$	(5.508 0.800 0.019)$\times10^{-2}$
22.25 – 23.42	(1.567 0.048 0.024)$\times10^{-2}$	(9.950 1.300 0.250)$\times10^{-4}$	(6.612 0.920 0.023)$\times10^{-2}$
23.42 – 24.62	(1.295 0.042 0.020)$\times10^{-2}$	(8.222 1.100 0.210)$\times10^{-4}$	(6.434 0.960 0.022)$\times10^{-2}$
24.62 – 25.90	(1.147 0.038 0.018)$\times10^{-2}$	(7.872 1.000 0.200)$\times10^{-4}$	(6.847 1.000 0.023)$\times10^{-2}$

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TABLE SM XXXV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.901\ 0.340\ 0.150)\times10^{-3}$	$(6.003\ 0.870\ 0.150)\times10^{-4}$	$(6.401\ 1.000\ 0.022)\times10^{-2}$
27.25 – 28.68	$(8.217\ 0.300\ 0.130)\times10^{-3}$	$(6.634\ 0.880\ 0.170)\times10^{-4}$	$(7.517\ 1.100\ 0.026)\times10^{-2}$
28.68 – 30.21	$(6.896\ 0.260\ 0.110)\times10^{-3}$	$(4.168\ 0.670\ 0.110)\times10^{-4}$	$(5.992\ 1.100\ 0.021)\times10^{-2}$
30.21 – 31.82	$(5.770\ 0.230\ 0.091)\times10^{-3}$	$(4.850\ 0.680\ 0.120)\times10^{-4}$	$(8.574\ 1.300\ 0.030)\times10^{-2}$
31.82 – 33.53	$(5.089\ 0.210\ 0.081)\times10^{-3}$	$(3.596\ 0.570\ 0.092)\times10^{-4}$	$(6.691\ 1.200\ 0.024)\times10^{-2}$
33.53 – 35.36	$(3.917\ 0.180\ 0.063)\times10^{-3}$	$(3.492\ 0.550\ 0.090)\times10^{-4}$	$(9.801\ 1.700\ 0.035)\times10^{-2}$
35.36 – 37.31	$(3.560\ 0.160\ 0.058)\times10^{-3}$	$(2.782\ 0.470\ 0.071)\times10^{-4}$	$(9.258\ 1.600\ 0.034)\times10^{-2}$
37.31 – 39.39	$(3.145\ 0.150\ 0.052)\times10^{-3}$	$(2.291\ 0.420\ 0.059)\times10^{-4}$	$(7.309\ 1.500\ 0.027)\times10^{-2}$
39.39 – 41.61	$(2.583\ 0.130\ 0.043)\times10^{-3}$	$(2.815\ 0.450\ 0.072)\times10^{-4}$	$(11.81\ 2.000\ 0.045)\times10^{-2}$
41.61 – 44.00	$(2.214\ 0.120\ 0.037)\times10^{-3}$	$(2.474\ 0.410\ 0.063)\times10^{-4}$	$(10.70\ 2.000\ 0.042)\times10^{-2}$
44.00 – 46.57	$(1.736\ 0.100\ 0.030)\times10^{-3}$	$(2.491\ 0.400\ 0.064)\times10^{-4}$	$(13.52\ 2.500\ 0.055)\times10^{-2}$
46.57 – 49.33	$(1.411\ 0.087\ 0.024)\times10^{-3}$	$(1.607\ 0.300\ 0.041)\times10^{-4}$	$(10.30\ 2.300\ 0.043)\times10^{-2}$

TABLE SM XXXVI: For Bartels Rotation 2460 (November 18, 2013 – December 14, 2013), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.096 0.021 0.019)$\times10^{1}$	(1.071 0.068 0.019)$\times10^{0}$	(9.424 0.650 0.110)$\times10^{-2}$
1.22 – 1.46	(9.887 0.150 0.140)$\times10^{0}$	(9.488 0.490 0.150)$\times10^{-1}$	(9.490 0.540 0.100)$\times10^{-2}$
1.46 – 1.72	(8.787 0.110 0.110)$\times10^{0}$	(7.374 0.330 0.100)$\times10^{-1}$	(8.328 0.400 0.088)$\times10^{-2}$
1.72 – 2.00	(7.600 0.080 0.085)$\times10^{0}$	(6.064 0.230 0.081)$\times10^{-1}$	(7.980 0.330 0.082)$\times10^{-2}$
2.00 – 2.31	(6.500 0.060 0.065)$\times10^{0}$	(5.063 0.170 0.067)$\times10^{-1}$	(7.875 0.290 0.078)$\times10^{-2}$
2.31 – 2.65	(5.422 0.046 0.050)$\times10^{0}$	(3.817 0.130 0.051)$\times10^{-1}$	(7.052 0.250 0.067)$\times10^{-2}$
2.65 – 3.00	(4.521 0.037 0.040)$\times10^{0}$	(3.072 0.100 0.043)$\times10^{-1}$	(6.775 0.240 0.062)$\times10^{-2}$
3.00 – 3.36	(3.699 0.031 0.033)$\times10^{0}$	(2.374 0.081 0.035)$\times10^{-1}$	(6.507 0.240 0.056)$\times10^{-2}$
3.36 – 3.73	(3.060 0.025 0.027)$\times10^{0}$	(1.869 0.066 0.028)$\times10^{-1}$	(6.118 0.230 0.049)$\times10^{-2}$
3.73 – 4.12	(2.505 0.021 0.023)$\times10^{0}$	(1.457 0.053 0.023)$\times10^{-1}$	(6.083 0.230 0.046)$\times10^{-2}$
4.12 – 4.54	(2.021 0.017 0.019)$\times10^{0}$	(1.213 0.044 0.020)$\times10^{-1}$	(5.971 0.230 0.041)$\times10^{-2}$
4.54 – 5.00	(1.670 0.014 0.016)$\times10^{0}$	(9.956 0.360 0.170)$\times10^{-2}$	(5.879 0.230 0.037)$\times10^{-2}$
5.00 – 5.49	(1.303 0.011 0.013)$\times10^{0}$	(7.474 0.280 0.130)$\times10^{-2}$	(5.756 0.230 0.033)$\times10^{-2}$
5.49 – 6.00	(1.037 0.009 0.011)$\times10^{0}$	(5.923 0.230 0.110)$\times10^{-2}$	(5.775 0.240 0.029)$\times10^{-2}$
6.00 – 6.54	(8.289 0.075 0.090)$\times10^{-1}$	(4.514 0.180 0.082)$\times10^{-2}$	(5.546 0.240 0.025)$\times10^{-2}$
6.54 – 7.10	(6.462 0.062 0.073)$\times10^{-1}$	(3.668 0.150 0.068)$\times10^{-2}$	(5.667 0.260 0.022)$\times10^{-2}$
7.10 – 7.69	(5.224 0.052 0.060)$\times10^{-1}$	(2.784 0.130 0.053)$\times10^{-2}$	(5.380 0.260 0.019)$\times10^{-2}$
7.69 – 8.30	(4.264 0.045 0.051)$\times10^{-1}$	(2.317 0.110 0.045)$\times10^{-2}$	(5.667 0.280 0.020)$\times10^{-2}$
8.30 – 8.95	(3.331 0.037 0.040)$\times10^{-1}$	(1.736 0.090 0.035)$\times10^{-2}$	(5.351 0.290 0.018)$\times10^{-2}$
8.95 – 9.62	(2.684 0.032 0.033)$\times10^{-1}$	(1.494 0.080 0.031)$\times10^{-2}$	(5.500 0.320 0.018)$\times10^{-2}$
9.62 – 10.32	(2.210 0.028 0.028)$\times10^{-1}$	(1.236 0.069 0.026)$\times10^{-2}$	(5.294 0.330 0.017)$\times10^{-2}$
10.32 – 11.04	(1.755 0.024 0.023)$\times10^{-1}$	(9.258 0.570 0.200)$\times10^{-3}$	(5.048 0.340 0.016)$\times10^{-2}$
11.04 – 11.80	(1.463 0.021 0.019)$\times10^{-1}$	(7.483 0.490 0.170)$\times10^{-3}$	(5.037 0.360 0.016)$\times10^{-2}$
11.80 – 12.59	(1.152 0.018 0.015)$\times10^{-1}$	(7.308 0.470 0.170)$\times10^{-3}$	(6.237 0.440 0.020)$\times10^{-2}$
12.59 – 13.41	(9.627 0.160 0.130)$\times10^{-2}$	(5.627 0.390 0.130)$\times10^{-3}$	(6.011 0.450 0.019)$\times10^{-2}$
13.41 – 14.25	(8.003 0.140 0.110)$\times10^{-2}$	(4.211 0.330 0.099)$\times10^{-3}$	(5.160 0.450 0.017)$\times10^{-2}$
14.25 – 15.14	(6.397 0.120 0.088)$\times10^{-2}$	(3.312 0.280 0.079)$\times10^{-3}$	(5.318 0.480 0.017)$\times10^{-2}$
15.14 – 16.05	(5.370 0.110 0.075)$\times10^{-2}$	(3.079 0.260 0.075)$\times10^{-3}$	(5.639 0.530 0.018)$\times10^{-2}$
16.05 – 17.00	(4.305 0.091 0.061)$\times10^{-2}$	(2.781 0.240 0.068)$\times10^{-3}$	(6.512 0.620 0.021)$\times10^{-2}$
17.00 – 17.98	(3.620 0.081 0.052)$\times10^{-2}$	(2.053 0.200 0.051)$\times10^{-3}$	(5.820 0.610 0.019)$\times10^{-2}$
17.98 – 18.99	(3.123 0.073 0.045)$\times10^{-2}$	(1.856 0.190 0.047)$\times10^{-3}$	(5.352 0.610 0.018)$\times10^{-2}$
18.99 – 20.04	(2.608 0.064 0.038)$\times10^{-2}$	(1.669 0.170 0.042)$\times10^{-3}$	(6.746 0.730 0.023)$\times10^{-2}$
20.04 – 21.13	(2.182 0.057 0.032)$\times10^{-2}$	(1.382 0.150 0.035)$\times10^{-3}$	(5.925 0.730 0.020)$\times10^{-2}$
21.13 – 22.25	(1.859 0.051 0.028)$\times10^{-2}$	(1.228 0.140 0.031)$\times10^{-3}$	(6.658 0.810 0.023)$\times10^{-2}$
22.25 – 23.42	(1.522 0.044 0.023)$\times10^{-2}$	(1.129 0.130 0.029)$\times10^{-3}$	(7.252 0.920 0.025)$\times10^{-2}$
23.42 – 24.62	(1.244 0.039 0.019)$\times10^{-2}$	(1.137 0.120 0.029)$\times10^{-3}$	(8.083 1.000 0.028)$\times10^{-2}$
24.62 – 25.90	(1.128 0.035 0.017)$\times10^{-2}$	(6.974 0.920 0.180)$\times10^{-4}$	(6.056 0.870 0.021)$\times10^{-2}$

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TABLE SM XXXVI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.686\ 0.310\ 0.150)\times10^{-3}$	$(6.186\ 0.820\ 0.160)\times10^{-4}$	$(6.865\ 0.980\ 0.024)\times10^{-2}$
27.25 – 28.68	$(7.913\ 0.270\ 0.120)\times10^{-3}$	$(5.525\ 0.730\ 0.140)\times10^{-4}$	$(6.834\ 1.000\ 0.024)\times10^{-2}$
28.68 – 30.21	$(6.330\ 0.230\ 0.099)\times10^{-3}$	$(5.068\ 0.680\ 0.130)\times10^{-4}$	$(7.431\ 1.200\ 0.026)\times10^{-2}$
30.21 – 31.82	$(6.017\ 0.220\ 0.095)\times10^{-3}$	$(4.498\ 0.630\ 0.120)\times10^{-4}$	$(7.732\ 1.200\ 0.027)\times10^{-2}$
31.82 – 33.53	$(4.649\ 0.180\ 0.074)\times10^{-3}$	$(3.648\ 0.530\ 0.094)\times10^{-4}$	$(7.841\ 1.300\ 0.028)\times10^{-2}$
33.53 – 35.36	$(3.900\ 0.160\ 0.063)\times10^{-3}$	$(3.850\ 0.530\ 0.099)\times10^{-4}$	$(10.46\ 1.600\ 0.038)\times10^{-2}$
35.36 – 37.31	$(3.286\ 0.150\ 0.054)\times10^{-3}$	$(2.160\ 0.400\ 0.055)\times10^{-4}$	$(6.958\ 1.400\ 0.025)\times10^{-2}$
37.31 – 39.39	$(3.003\ 0.130\ 0.050)\times10^{-3}$	$(2.292\ 0.380\ 0.059)\times10^{-4}$	$(7.764\ 1.400\ 0.029)\times10^{-2}$
39.39 – 41.61	$(2.327\ 0.110\ 0.039)\times10^{-3}$	$(1.716\ 0.330\ 0.044)\times10^{-4}$	$(7.496\ 1.600\ 0.029)\times10^{-2}$
41.61 – 44.00	$(1.949\ 0.100\ 0.033)\times10^{-3}$	$(1.341\ 0.280\ 0.034)\times10^{-4}$	$(6.955\ 1.600\ 0.027)\times10^{-2}$
44.00 – 46.57	$(1.635\ 0.090\ 0.028)\times10^{-3}$	$(1.739\ 0.300\ 0.045)\times10^{-4}$	$(11.43\ 2.300\ 0.046)\times10^{-2}$
46.57 – 49.33	$(1.288\ 0.077\ 0.022)\times10^{-3}$	$(1.106\ 0.240\ 0.028)\times10^{-4}$	$(9.765\ 2.200\ 0.041)\times10^{-2}$

TABLE SM XXXVII: For Bartels Rotation 2461 (December 15, 2013 – January 10, 2014), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.094 0.021 0.019)$\times10^{1}$	(1.115 0.069 0.020)$\times10^{0}$	(10.68 0.700 0.120)$\times10^{-2}$
1.22 – 1.46	(1.009 0.015 0.015)$\times10^{1}$	(9.317 0.480 0.140)$\times10^{-1}$	(9.109 0.520 0.100)$\times10^{-2}$
1.46 – 1.72	(8.948 0.110 0.110)$\times10^{0}$	(7.076 0.320 0.098)$\times10^{-1}$	(7.894 0.380 0.084)$\times10^{-2}$
1.72 – 2.00	(7.672 0.079 0.086)$\times10^{0}$	(6.322 0.230 0.085)$\times10^{-1}$	(8.227 0.330 0.085)$\times10^{-2}$
2.00 – 2.31	(6.549 0.059 0.065)$\times10^{0}$	(4.863 0.170 0.064)$\times10^{-1}$	(7.320 0.270 0.073)$\times10^{-2}$
2.31 – 2.65	(5.551 0.046 0.051)$\times10^{0}$	(3.942 0.130 0.053)$\times10^{-1}$	(7.128 0.250 0.068)$\times10^{-2}$
2.65 – 3.00	(4.461 0.037 0.040)$\times10^{0}$	(3.078 0.100 0.043)$\times10^{-1}$	(6.928 0.240 0.063)$\times10^{-2}$
3.00 – 3.36	(3.738 0.030 0.033)$\times10^{0}$	(2.379 0.080 0.035)$\times10^{-1}$	(6.541 0.230 0.056)$\times10^{-2}$
3.36 – 3.73	(3.087 0.025 0.028)$\times10^{0}$	(1.799 0.064 0.027)$\times10^{-1}$	(5.827 0.220 0.047)$\times10^{-2}$
3.73 – 4.12	(2.532 0.021 0.023)$\times10^{0}$	(1.524 0.054 0.024)$\times10^{-1}$	(6.121 0.230 0.046)$\times10^{-2}$
4.12 – 4.54	(2.043 0.017 0.019)$\times10^{0}$	(1.188 0.043 0.019)$\times10^{-1}$	(5.777 0.230 0.040)$\times10^{-2}$
4.54 – 5.00	(1.652 0.014 0.016)$\times10^{0}$	(9.175 0.340 0.160)$\times10^{-2}$	(5.607 0.220 0.035)$\times10^{-2}$
5.00 – 5.49	(1.305 0.011 0.013)$\times10^{0}$	(7.590 0.280 0.130)$\times10^{-2}$	(5.709 0.230 0.032)$\times10^{-2}$
5.49 – 6.00	(1.050 0.009 0.011)$\times10^{0}$	(5.714 0.220 0.100)$\times10^{-2}$	(5.613 0.230 0.028)$\times10^{-2}$
6.00 – 6.54	(8.314 0.075 0.090)$\times10^{-1}$	(4.569 0.180 0.083)$\times10^{-2}$	(5.340 0.230 0.024)$\times10^{-2}$
6.54 – 7.10	(6.600 0.062 0.074)$\times10^{-1}$	(3.724 0.150 0.069)$\times10^{-2}$	(5.603 0.250 0.022)$\times10^{-2}$
7.10 – 7.69	(5.359 0.052 0.062)$\times10^{-1}$	(2.756 0.120 0.053)$\times10^{-2}$	(5.151 0.250 0.018)$\times10^{-2}$
7.69 – 8.30	(4.208 0.044 0.050)$\times10^{-1}$	(2.419 0.110 0.047)$\times10^{-2}$	(5.730 0.280 0.020)$\times10^{-2}$
8.30 – 8.95	(3.388 0.037 0.041)$\times10^{-1}$	(1.890 0.092 0.038)$\times10^{-2}$	(5.520 0.290 0.019)$\times10^{-2}$
8.95 – 9.62	(2.738 0.032 0.034)$\times10^{-1}$	(1.535 0.080 0.032)$\times10^{-2}$	(5.976 0.330 0.020)$\times10^{-2}$
9.62 – 10.32	(2.177 0.027 0.027)$\times10^{-1}$	(1.273 0.069 0.027)$\times10^{-2}$	(5.944 0.350 0.020)$\times10^{-2}$
10.32 – 11.04	(1.778 0.024 0.023)$\times10^{-1}$	(9.515 0.570 0.210)$\times10^{-3}$	(5.646 0.360 0.018)$\times10^{-2}$
11.04 – 11.80	(1.421 0.020 0.019)$\times10^{-1}$	(8.426 0.510 0.190)$\times10^{-3}$	(5.881 0.390 0.019)$\times10^{-2}$
11.80 – 12.59	(1.171 0.018 0.016)$\times10^{-1}$	(7.624 0.470 0.170)$\times10^{-3}$	(6.258 0.430 0.020)$\times10^{-2}$
12.59 – 13.41	(9.663 0.160 0.130)$\times10^{-2}$	(5.464 0.380 0.130)$\times10^{-3}$	(5.866 0.440 0.019)$\times10^{-2}$
13.41 – 14.25	(7.888 0.140 0.110)$\times10^{-2}$	(4.361 0.330 0.100)$\times10^{-3}$	(5.358 0.450 0.017)$\times10^{-2}$
14.25 – 15.14	(6.517 0.120 0.090)$\times10^{-2}$	(4.353 0.320 0.100)$\times10^{-3}$	(6.622 0.530 0.021)$\times10^{-2}$
15.14 – 16.05	(5.218 0.100 0.073)$\times10^{-2}$	(3.578 0.280 0.087)$\times10^{-3}$	(6.770 0.590 0.022)$\times10^{-2}$
16.05 – 17.00	(4.393 0.091 0.062)$\times10^{-2}$	(2.838 0.240 0.070)$\times10^{-3}$	(5.971 0.580 0.020)$\times10^{-2}$
17.00 – 17.98	(3.684 0.081 0.053)$\times10^{-2}$	(2.621 0.220 0.065)$\times10^{-3}$	(7.247 0.690 0.024)$\times10^{-2}$
17.98 – 18.99	(3.118 0.072 0.045)$\times10^{-2}$	(2.061 0.190 0.052)$\times10^{-3}$	(6.705 0.690 0.022)$\times10^{-2}$
18.99 – 20.04	(2.649 0.064 0.039)$\times10^{-2}$	(1.443 0.160 0.036)$\times10^{-3}$	(5.514 0.650 0.019)$\times10^{-2}$
20.04 – 21.13	(2.186 0.056 0.032)$\times10^{-2}$	(1.724 0.160 0.044)$\times10^{-3}$	(7.662 0.820 0.026)$\times10^{-2}$
21.13 – 22.25	(1.835 0.050 0.027)$\times10^{-2}$	(1.138 0.130 0.029)$\times10^{-3}$	(5.738 0.740 0.019)$\times10^{-2}$
22.25 – 23.42	(1.590 0.045 0.024)$\times10^{-2}$	(1.019 0.120 0.026)$\times10^{-3}$	(6.966 0.840 0.024)$\times10^{-2}$
23.42 – 24.62	(1.305 0.039 0.020)$\times10^{-2}$	(6.944 0.940 0.180)$\times10^{-4}$	(5.313 0.800 0.018)$\times10^{-2}$
24.62 – 25.90	(1.094 0.034 0.017)$\times10^{-2}$	(9.083 1.000 0.230)$\times10^{-4}$	(9.199 1.100 0.032)$\times10^{-2}$

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TABLE SM XXXVII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.098\ 0.300\ 0.140)\times10^{-3}$	$(5.743\ 0.780\ 0.150)\times10^{-4}$	$(6.569\ 0.970\ 0.023)\times10^{-2}$
27.25 – 28.68	$(7.867\ 0.270\ 0.120)\times10^{-3}$	$(6.140\ 0.760\ 0.160)\times10^{-4}$	$(8.693\ 1.200\ 0.030)\times10^{-2}$
28.68 – 30.21	$(6.885\ 0.240\ 0.110)\times10^{-3}$	$(4.957\ 0.660\ 0.130)\times10^{-4}$	$(7.157\ 1.100\ 0.025)\times10^{-2}$
30.21 – 31.82	$(5.850\ 0.210\ 0.093)\times10^{-3}$	$(5.199\ 0.660\ 0.130)\times10^{-4}$	$(9.140\ 1.300\ 0.032)\times10^{-2}$
31.82 – 33.53	$(4.771\ 0.180\ 0.076)\times10^{-3}$	$(4.710\ 0.600\ 0.120)\times10^{-4}$	$(9.447\ 1.400\ 0.034)\times10^{-2}$
33.53 – 35.36	$(4.389\ 0.170\ 0.071)\times10^{-3}$	$(1.850\ 0.380\ 0.047)\times10^{-4}$	$(4.308\ 0.940\ 0.016)\times10^{-2}$
35.36 – 37.31	$(3.624\ 0.150\ 0.059)\times10^{-3}$	$(3.112\ 0.450\ 0.080)\times10^{-4}$	$(8.571\ 1.400\ 0.031)\times10^{-2}$
37.31 – 39.39	$(2.900\ 0.130\ 0.048)\times10^{-3}$	$(2.020\ 0.360\ 0.052)\times10^{-4}$	$(7.222\ 1.400\ 0.027)\times10^{-2}$
39.39 – 41.61	$(2.621\ 0.120\ 0.044)\times10^{-3}$	$(1.650\ 0.310\ 0.042)\times10^{-4}$	$(5.585\ 1.200\ 0.021)\times10^{-2}$
41.61 – 44.00	$(1.952\ 0.100\ 0.033)\times10^{-3}$	$(1.711\ 0.310\ 0.044)\times10^{-4}$	$(8.646\ 1.800\ 0.034)\times10^{-2}$
44.00 – 46.57	$(1.668\ 0.090\ 0.029)\times10^{-3}$	$(1.345\ 0.260\ 0.035)\times10^{-4}$	$(6.430\ 1.600\ 0.026)\times10^{-2}$
46.57 – 49.33	$(1.555\ 0.084\ 0.027)\times10^{-3}$	$(1.662\ 0.280\ 0.043)\times10^{-4}$	$(12.12\ 2.200\ 0.051)\times10^{-2}$

TABLE SM XXXVIII: For Bartels Rotation 2462 (January 11, 2014 – February 06, 2014), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.070 0.020 0.018)×10^{1}	(1.052 0.066 0.019)×10^{0}	(9.723 0.670 0.110)×10^{-2}
1.22 – 1.46	(9.825 0.150 0.140)×10^{0}	(9.131 0.480 0.140)×10^{-1}	(9.176 0.520 0.100)×10^{-2}
1.46 – 1.72	(9.162 0.110 0.120)×10^{0}	(8.473 0.340 0.120)×10^{-1}	(9.014 0.400 0.096)×10^{-2}
1.72 – 2.00	(7.565 0.079 0.085)×10^{0}	(6.483 0.240 0.087)×10^{-1}	(8.711 0.340 0.090)×10^{-2}
2.00 – 2.31	(6.678 0.060 0.067)×10^{0}	(4.975 0.170 0.066)×10^{-1}	(7.383 0.270 0.074)×10^{-2}
2.31 – 2.65	(5.518 0.046 0.051)×10^{0}	(3.957 0.130 0.053)×10^{-1}	(7.048 0.250 0.067)×10^{-2}
2.65 – 3.00	(4.560 0.037 0.040)×10^{0}	(3.076 0.100 0.043)×10^{-1}	(6.919 0.240 0.063)×10^{-2}
3.00 – 3.36	(3.887 0.031 0.034)×10^{0}	(2.481 0.082 0.036)×10^{-1}	(6.305 0.230 0.054)×10^{-2}
3.36 – 3.73	(3.099 0.025 0.028)×10^{0}	(1.988 0.067 0.030)×10^{-1}	(6.341 0.230 0.051)×10^{-2}
3.73 – 4.12	(2.523 0.021 0.023)×10^{0}	(1.396 0.052 0.022)×10^{-1}	(5.459 0.220 0.041)×10^{-2}
4.12 – 4.54	(2.044 0.017 0.019)×10^{0}	(1.159 0.042 0.019)×10^{-1}	(5.636 0.220 0.039)×10^{-2}
4.54 – 5.00	(1.657 0.014 0.016)×10^{0}	(9.600 0.350 0.160)×10^{-2}	(5.794 0.230 0.037)×10^{-2}
5.00 – 5.49	(1.287 0.011 0.013)×10^{0}	(7.333 0.280 0.130)×10^{-2}	(5.743 0.230 0.033)×10^{-2}
5.49 – 6.00	(1.043 0.009 0.011)×10^{0}	(5.501 0.220 0.098)×10^{-2}	(5.252 0.230 0.026)×10^{-2}
6.00 – 6.54	(8.264 0.075 0.090)×10^{-1}	(4.570 0.180 0.083)×10^{-2}	(5.448 0.240 0.024)×10^{-2}
6.54 – 7.10	(6.523 0.062 0.073)×10^{-1}	(3.919 0.160 0.073)×10^{-2}	(6.088 0.260 0.023)×10^{-2}
7.10 – 7.69	(5.208 0.052 0.060)×10^{-1}	(2.659 0.120 0.051)×10^{-2}	(5.159 0.260 0.018)×10^{-2}
7.69 – 8.30	(4.212 0.044 0.050)×10^{-1}	(2.129 0.100 0.042)×10^{-2}	(5.054 0.270 0.017)×10^{-2}
8.30 – 8.95	(3.388 0.037 0.041)×10^{-1}	(1.720 0.089 0.035)×10^{-2}	(5.204 0.290 0.018)×10^{-2}
8.95 – 9.62	(2.696 0.032 0.033)×10^{-1}	(1.565 0.081 0.032)×10^{-2}	(5.848 0.330 0.019)×10^{-2}
9.62 – 10.32	(2.157 0.027 0.027)×10^{-1}	(1.235 0.068 0.026)×10^{-2}	(5.864 0.350 0.019)×10^{-2}
10.32 – 11.04	(1.718 0.023 0.022)×10^{-1}	(9.847 0.580 0.210)×10^{-3}	(5.831 0.370 0.019)×10^{-2}
11.04 – 11.80	(1.439 0.020 0.019)×10^{-1}	(7.829 0.490 0.170)×10^{-3}	(5.562 0.380 0.018)×10^{-2}
11.80 – 12.59	(1.181 0.018 0.016)×10^{-1}	(6.283 0.430 0.140)×10^{-3}	(5.243 0.390 0.017)×10^{-2}
12.59 – 13.41	(9.556 0.150 0.130)×10^{-2}	(5.789 0.390 0.130)×10^{-3}	(6.246 0.460 0.020)×10^{-2}
13.41 – 14.25	(8.005 0.140 0.110)×10^{-2}	(4.473 0.340 0.110)×10^{-3}	(5.621 0.460 0.018)×10^{-2}
14.25 – 15.14	(6.482 0.120 0.090)×10^{-2}	(3.639 0.290 0.087)×10^{-3}	(5.507 0.490 0.018)×10^{-2}
15.14 – 16.05	(5.350 0.100 0.075)×10^{-2}	(3.528 0.280 0.086)×10^{-3}	(6.386 0.570 0.021)×10^{-2}
16.05 – 17.00	(4.510 0.092 0.064)×10^{-2}	(2.647 0.230 0.065)×10^{-3}	(6.091 0.580 0.020)×10^{-2}
17.00 – 17.98	(3.591 0.080 0.051)×10^{-2}	(2.515 0.220 0.063)×10^{-3}	(7.112 0.680 0.024)×10^{-2}
17.98 – 18.99	(3.077 0.072 0.044)×10^{-2}	(1.916 0.190 0.048)×10^{-3}	(6.453 0.680 0.022)×10^{-2}
18.99 – 20.04	(2.553 0.063 0.037)×10^{-2}	(1.646 0.170 0.042)×10^{-3}	(6.053 0.700 0.020)×10^{-2}
20.04 – 21.13	(2.038 0.054 0.030)×10^{-2}	(1.465 0.150 0.037)×10^{-3}	(7.007 0.810 0.024)×10^{-2}
21.13 – 22.25	(1.883 0.051 0.028)×10^{-2}	(1.335 0.140 0.034)×10^{-3}	(7.718 0.860 0.026)×10^{-2}
22.25 – 23.42	(1.574 0.044 0.024)×10^{-2}	(1.092 0.120 0.028)×10^{-3}	(6.695 0.840 0.023)×10^{-2}
23.42 – 24.62	(1.322 0.039 0.020)×10^{-2}	(9.144 1.100 0.230)×10^{-4}	(7.687 0.970 0.026)×10^{-2}
24.62 – 25.90	(1.131 0.035 0.017)×10^{-2}	(8.311 0.970 0.210)×10^{-4}	(7.204 0.940 0.025)×10^{-2}

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TABLE SM XXXVIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.302\ 0.300\ 0.140)\times10^{-3}$	$(6.868\ 0.850\ 0.180)\times10^{-4}$	$(7.554\ 1.000\ 0.026)\times10^{-2}$
27.25 – 28.68	$(7.821\ 0.270\ 0.120)\times10^{-3}$	$(6.851\ 0.810\ 0.180)\times10^{-4}$	$(8.155\ 1.100\ 0.028)\times10^{-2}$
28.68 – 30.21	$(7.017\ 0.240\ 0.110)\times10^{-3}$	$(4.979\ 0.660\ 0.130)\times10^{-4}$	$(7.955\ 1.100\ 0.028)\times10^{-2}$
30.21 – 31.82	$(5.849\ 0.210\ 0.093)\times10^{-3}$	$(2.819\ 0.490\ 0.072)\times10^{-4}$	$(4.530\ 0.890\ 0.016)\times10^{-2}$
31.82 – 33.53	$(4.820\ 0.190\ 0.077)\times10^{-3}$	$(3.697\ 0.530\ 0.095)\times10^{-4}$	$(6.555\ 1.100\ 0.023)\times10^{-2}$
33.53 – 35.36	$(4.163\ 0.170\ 0.067)\times10^{-3}$	$(3.046\ 0.480\ 0.078)\times10^{-4}$	$(7.881\ 1.300\ 0.028)\times10^{-2}$
35.36 – 37.31	$(3.370\ 0.150\ 0.055)\times10^{-3}$	$(2.648\ 0.430\ 0.068)\times10^{-4}$	$(8.758\ 1.500\ 0.032)\times10^{-2}$
37.31 – 39.39	$(2.760\ 0.130\ 0.046)\times10^{-3}$	$(2.406\ 0.390\ 0.062)\times10^{-4}$	$(8.796\ 1.600\ 0.033)\times10^{-2}$
39.39 – 41.61	$(2.565\ 0.120\ 0.043)\times10^{-3}$	$(1.925\ 0.340\ 0.049)\times10^{-4}$	$(7.181\ 1.400\ 0.027)\times10^{-2}$
41.61 – 44.00	$(2.070\ 0.100\ 0.035)\times10^{-3}$	$(1.734\ 0.310\ 0.044)\times10^{-4}$	$(8.112\ 1.700\ 0.032)\times10^{-2}$
44.00 – 46.57	$(1.648\ 0.089\ 0.028)\times10^{-3}$	$(1.271\ 0.260\ 0.033)\times10^{-4}$	$(8.153\ 1.800\ 0.033)\times10^{-2}$
46.57 – 49.33	$(1.524\ 0.083\ 0.026)\times10^{-3}$	$(1.504\ 0.270\ 0.039)\times10^{-4}$	$(10.30\ 2.100\ 0.043)\times10^{-2}$

TABLE SM XXXIX: For Bartels Rotation 2463 (February 07, 2014 – March 05, 2014), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.020 0.020 0.017)$\times10^{1}$	(1.043 0.066 0.019)$\times10^{0}$	(10.26 0.700 0.120)$\times10^{-2}$
1.22 – 1.46	(9.157 0.140 0.130)$\times10^{0}$	(8.428 0.450 0.130)$\times10^{-1}$	(9.243 0.540 0.100)$\times10^{-2}$
1.46 – 1.72	(8.578 0.100 0.110)$\times10^{0}$	(7.405 0.320 0.100)$\times10^{-1}$	(8.670 0.410 0.092)$\times10^{-2}$
1.72 – 2.00	(7.090 0.075 0.080)$\times10^{0}$	(5.726 0.220 0.077)$\times10^{-1}$	(7.967 0.340 0.082)$\times10^{-2}$
2.00 – 2.31	(6.060 0.056 0.061)$\times10^{0}$	(4.429 0.160 0.059)$\times10^{-1}$	(7.436 0.290 0.074)$\times10^{-2}$
2.31 – 2.65	(5.057 0.043 0.046)$\times10^{0}$	(3.587 0.120 0.048)$\times10^{-1}$	(7.100 0.260 0.068)$\times10^{-2}$
2.65 – 3.00	(4.168 0.035 0.037)$\times10^{0}$	(2.728 0.093 0.038)$\times10^{-1}$	(6.579 0.240 0.060)$\times10^{-2}$
3.00 – 3.36	(3.449 0.029 0.031)$\times10^{0}$	(2.188 0.076 0.032)$\times10^{-1}$	(6.360 0.240 0.055)$\times10^{-2}$
3.36 – 3.73	(2.831 0.024 0.025)$\times10^{0}$	(1.718 0.061 0.026)$\times10^{-1}$	(6.002 0.230 0.049)$\times10^{-2}$
3.73 – 4.12	(2.310 0.020 0.021)$\times10^{0}$	(1.373 0.050 0.022)$\times10^{-1}$	(5.948 0.230 0.045)$\times10^{-2}$
4.12 – 4.54	(1.865 0.016 0.017)$\times10^{0}$	(1.073 0.040 0.018)$\times10^{-1}$	(5.760 0.230 0.040)$\times10^{-2}$
4.54 – 5.00	(1.528 0.013 0.015)$\times10^{0}$	(9.307 0.340 0.160)$\times10^{-2}$	(6.164 0.240 0.039)$\times10^{-2}$
5.00 – 5.49	(1.206 0.011 0.012)$\times10^{0}$	(6.487 0.260 0.110)$\times10^{-2}$	(5.342 0.230 0.030)$\times10^{-2}$
5.49 – 6.00	(9.811 0.088 0.100)$\times10^{-1}$	(5.210 0.210 0.093)$\times10^{-2}$	(5.440 0.240 0.027)$\times10^{-2}$
6.00 – 6.54	(7.805 0.072 0.085)$\times10^{-1}$	(4.172 0.180 0.076)$\times10^{-2}$	(5.252 0.240 0.023)$\times10^{-2}$
6.54 – 7.10	(6.184 0.060 0.070)$\times10^{-1}$	(3.727 0.150 0.070)$\times10^{-2}$	(5.983 0.270 0.023)$\times10^{-2}$
7.10 – 7.69	(4.910 0.050 0.057)$\times10^{-1}$	(2.839 0.130 0.054)$\times10^{-2}$	(5.707 0.270 0.020)$\times10^{-2}$
7.69 – 8.30	(3.990 0.043 0.047)$\times10^{-1}$	(2.071 0.100 0.041)$\times10^{-2}$	(5.293 0.280 0.018)$\times10^{-2}$
8.30 – 8.95	(3.192 0.036 0.039)$\times10^{-1}$	(1.659 0.087 0.033)$\times10^{-2}$	(5.223 0.290 0.018)$\times10^{-2}$
8.95 – 9.62	(2.500 0.031 0.031)$\times10^{-1}$	(1.576 0.081 0.032)$\times10^{-2}$	(6.399 0.350 0.021)$\times10^{-2}$
9.62 – 10.32	(2.067 0.027 0.026)$\times10^{-1}$	(1.236 0.068 0.026)$\times10^{-2}$	(6.390 0.370 0.021)$\times10^{-2}$
10.32 – 11.04	(1.658 0.023 0.021)$\times10^{-1}$	(9.462 0.570 0.210)$\times10^{-3}$	(5.749 0.380 0.019)$\times10^{-2}$
11.04 – 11.80	(1.392 0.020 0.018)$\times10^{-1}$	(7.289 0.480 0.160)$\times10^{-3}$	(5.662 0.390 0.018)$\times10^{-2}$
11.80 – 12.59	(1.112 0.017 0.015)$\times10^{-1}$	(6.818 0.440 0.150)$\times10^{-3}$	(5.919 0.430 0.019)$\times10^{-2}$
12.59 – 13.41	(9.515 0.150 0.130)$\times10^{-2}$	(6.297 0.410 0.150)$\times10^{-3}$	(6.904 0.490 0.022)$\times10^{-2}$
13.41 – 14.25	(7.752 0.130 0.110)$\times10^{-2}$	(4.690 0.350 0.110)$\times10^{-3}$	(6.187 0.490 0.020)$\times10^{-2}$
14.25 – 15.14	(6.289 0.120 0.087)$\times10^{-2}$	(4.033 0.310 0.097)$\times10^{-3}$	(6.572 0.550 0.021)$\times10^{-2}$
15.14 – 16.05	(5.394 0.100 0.075)$\times10^{-2}$	(3.243 0.270 0.079)$\times10^{-3}$	(6.071 0.550 0.020)$\times10^{-2}$
16.05 – 17.00	(4.296 0.090 0.061)$\times10^{-2}$	(2.321 0.220 0.057)$\times10^{-3}$	(5.772 0.570 0.019)$\times10^{-2}$
17.00 – 17.98	(3.542 0.079 0.051)$\times10^{-2}$	(1.820 0.190 0.045)$\times10^{-3}$	(5.465 0.600 0.018)$\times10^{-2}$
17.98 – 18.99	(2.936 0.070 0.042)$\times10^{-2}$	(1.652 0.180 0.041)$\times10^{-3}$	(5.754 0.650 0.019)$\times10^{-2}$
18.99 – 20.04	(2.648 0.064 0.039)$\times10^{-2}$	(1.647 0.170 0.042)$\times10^{-3}$	(6.505 0.710 0.022)$\times10^{-2}$
20.04 – 21.13	(2.061 0.055 0.030)$\times10^{-2}$	(1.169 0.140 0.030)$\times10^{-3}$	(5.558 0.710 0.019)$\times10^{-2}$
21.13 – 22.25	(1.812 0.050 0.027)$\times10^{-2}$	(1.144 0.130 0.029)$\times10^{-3}$	(6.840 0.830 0.023)$\times10^{-2}$
22.25 – 23.42	(1.582 0.045 0.024)$\times10^{-2}$	(1.034 0.120 0.026)$\times10^{-3}$	(6.259 0.810 0.021)$\times10^{-2}$
23.42 – 24.62	(1.242 0.038 0.019)$\times10^{-2}$	(9.184 1.100 0.240)$\times10^{-4}$	(7.352 0.950 0.025)$\times10^{-2}$
24.62 – 25.90	(1.063 0.034 0.016)$\times10^{-2}$	(7.266 0.920 0.190)$\times10^{-4}$	(6.948 0.960 0.024)$\times10^{-2}$

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TABLE SM XXXIX – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.096\ 0.300\ 0.140)\times10^{-3}$	$(7.119\ 0.870\ 0.180)\times10^{-4}$	$(7.608\ 1.000\ 0.026)\times10^{-2}$
27.25 – 28.68	$(7.854\ 0.270\ 0.120)\times10^{-3}$	$(6.412\ 0.790\ 0.160)\times10^{-4}$	$(8.131\ 1.100\ 0.028)\times10^{-2}$
28.68 – 30.21	$(6.857\ 0.240\ 0.110)\times10^{-3}$	$(5.079\ 0.670\ 0.130)\times10^{-4}$	$(7.615\ 1.100\ 0.026)\times10^{-2}$
30.21 – 31.82	$(5.668\ 0.210\ 0.090)\times10^{-3}$	$(4.951\ 0.640\ 0.130)\times10^{-4}$	$(7.887\ 1.200\ 0.028)\times10^{-2}$
31.82 – 33.53	$(4.573\ 0.180\ 0.073)\times10^{-3}$	$(3.395\ 0.510\ 0.087)\times10^{-4}$	$(7.413\ 1.200\ 0.026)\times10^{-2}$
33.53 – 35.36	$(4.214\ 0.170\ 0.068)\times10^{-3}$	$(3.213\ 0.480\ 0.082)\times10^{-4}$	$(7.073\ 1.200\ 0.025)\times10^{-2}$
35.36 – 37.31	$(3.197\ 0.140\ 0.052)\times10^{-3}$	$(3.111\ 0.460\ 0.080)\times10^{-4}$	$(9.590\ 1.600\ 0.035)\times10^{-2}$
37.31 – 39.39	$(2.746\ 0.130\ 0.045)\times10^{-3}$	$(2.424\ 0.390\ 0.062)\times10^{-4}$	$(8.400\ 1.500\ 0.031)\times10^{-2}$
39.39 – 41.61	$(2.344\ 0.110\ 0.039)\times10^{-3}$	$(1.968\ 0.350\ 0.050)\times10^{-4}$	$(8.519\ 1.600\ 0.033)\times10^{-2}$
41.61 – 44.00	$(1.829\ 0.097\ 0.031)\times10^{-3}$	$(1.915\ 0.330\ 0.049)\times10^{-4}$	$(10.29\ 2.000\ 0.040)\times10^{-2}$
44.00 – 46.57	$(1.571\ 0.087\ 0.027)\times10^{-3}$	$(1.088\ 0.240\ 0.028)\times10^{-4}$	$(7.102\ 1.700\ 0.029)\times10^{-2}$
46.57 – 49.33	$(1.253\ 0.076\ 0.022)\times10^{-3}$	$(1.377\ 0.260\ 0.035)\times10^{-4}$	$(12.48\ 2.500\ 0.053)\times10^{-2}$

TABLE SM XL: For Bartels Rotation 2464 (March 06, 2014 – April 01, 2014), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.003 0.019 0.017)$\times10^{1}$	(1.091 0.067 0.020)$\times10^{0}$	(10.79 0.720 0.120)$\times10^{-2}$
1.22 – 1.46	(9.301 0.150 0.140)$\times10^{0}$	(8.675 0.470 0.130)$\times10^{-1}$	(8.757 0.520 0.096)$\times10^{-2}$
1.46 – 1.72	(8.471 0.110 0.110)$\times10^{0}$	(8.106 0.340 0.110)$\times10^{-1}$	(9.694 0.440 0.100)$\times10^{-2}$
1.72 – 2.00	(7.125 0.076 0.080)$\times10^{0}$	(5.535 0.220 0.074)$\times10^{-1}$	(7.975 0.340 0.082)$\times10^{-2}$
2.00 – 2.31	(6.167 0.058 0.062)$\times10^{0}$	(4.745 0.170 0.063)$\times10^{-1}$	(7.590 0.290 0.076)$\times10^{-2}$
2.31 – 2.65	(5.132 0.044 0.047)$\times10^{0}$	(3.801 0.120 0.051)$\times10^{-1}$	(7.456 0.270 0.071)$\times10^{-2}$
2.65 – 3.00	(4.257 0.036 0.038)$\times10^{0}$	(2.948 0.098 0.041)$\times10^{-1}$	(6.979 0.250 0.064)$\times10^{-2}$
3.00 – 3.36	(3.524 0.030 0.031)$\times10^{0}$	(2.396 0.080 0.035)$\times10^{-1}$	(6.551 0.240 0.056)$\times10^{-2}$
3.36 – 3.73	(2.914 0.025 0.026)$\times10^{0}$	(1.797 0.064 0.027)$\times10^{-1}$	(6.250 0.240 0.051)$\times10^{-2}$
3.73 – 4.12	(2.393 0.020 0.022)$\times10^{0}$	(1.444 0.052 0.023)$\times10^{-1}$	(6.038 0.230 0.045)$\times10^{-2}$
4.12 – 4.54	(1.923 0.016 0.018)$\times10^{0}$	(1.192 0.043 0.020)$\times10^{-1}$	(6.175 0.240 0.043)$\times10^{-2}$
4.54 – 5.00	(1.554 0.013 0.015)$\times10^{0}$	(9.472 0.350 0.160)$\times10^{-2}$	(6.059 0.240 0.038)$\times10^{-2}$
5.00 – 5.49	(1.247 0.011 0.012)$\times10^{0}$	(6.880 0.270 0.120)$\times10^{-2}$	(5.567 0.230 0.032)$\times10^{-2}$
5.49 – 6.00	(1.001 0.009 0.010)$\times10^{0}$	(5.732 0.220 0.100)$\times10^{-2}$	(5.951 0.250 0.030)$\times10^{-2}$
6.00 – 6.54	(7.919 0.073 0.086)$\times10^{-1}$	(4.542 0.180 0.083)$\times10^{-2}$	(5.723 0.250 0.025)$\times10^{-2}$
6.54 – 7.10	(6.281 0.061 0.071)$\times10^{-1}$	(3.710 0.150 0.069)$\times10^{-2}$	(6.011 0.270 0.023)$\times10^{-2}$
7.10 – 7.69	(5.103 0.051 0.059)$\times10^{-1}$	(2.776 0.130 0.053)$\times10^{-2}$	(5.794 0.270 0.021)$\times10^{-2}$
7.69 – 8.30	(4.090 0.043 0.049)$\times10^{-1}$	(2.323 0.110 0.045)$\times10^{-2}$	(5.791 0.290 0.020)$\times10^{-2}$
8.30 – 8.95	(3.300 0.037 0.040)$\times10^{-1}$	(1.865 0.092 0.037)$\times10^{-2}$	(5.675 0.300 0.019)$\times10^{-2}$
8.95 – 9.62	(2.660 0.032 0.033)$\times10^{-1}$	(1.406 0.076 0.029)$\times10^{-2}$	(5.361 0.310 0.018)$\times10^{-2}$
9.62 – 10.32	(2.139 0.027 0.027)$\times10^{-1}$	(1.140 0.066 0.024)$\times10^{-2}$	(5.093 0.320 0.017)$\times10^{-2}$
10.32 – 11.04	(1.714 0.023 0.022)$\times10^{-1}$	(1.012 0.059 0.022)$\times10^{-2}$	(5.811 0.370 0.019)$\times10^{-2}$
11.04 – 11.80	(1.404 0.020 0.018)$\times10^{-1}$	(7.670 0.490 0.170)$\times10^{-3}$	(5.384 0.380 0.017)$\times10^{-2}$
11.80 – 12.59	(1.128 0.017 0.015)$\times10^{-1}$	(7.021 0.450 0.160)$\times10^{-3}$	(6.182 0.440 0.020)$\times10^{-2}$
12.59 – 13.41	(9.109 0.150 0.120)$\times10^{-2}$	(5.122 0.370 0.120)$\times10^{-3}$	(5.791 0.450 0.018)$\times10^{-2}$
13.41 – 14.25	(7.484 0.130 0.100)$\times10^{-2}$	(4.210 0.330 0.099)$\times10^{-3}$	(5.303 0.460 0.017)$\times10^{-2}$
14.25 – 15.14	(6.284 0.120 0.087)$\times10^{-2}$	(3.624 0.290 0.087)$\times10^{-3}$	(5.446 0.490 0.018)$\times10^{-2}$
15.14 – 16.05	(5.491 0.110 0.077)$\times10^{-2}$	(3.527 0.280 0.086)$\times10^{-3}$	(6.556 0.560 0.021)$\times10^{-2}$
16.05 – 17.00	(4.317 0.090 0.061)$\times10^{-2}$	(2.689 0.230 0.066)$\times10^{-3}$	(6.038 0.580 0.020)$\times10^{-2}$
17.00 – 17.98	(3.595 0.080 0.051)$\times10^{-2}$	(2.559 0.220 0.064)$\times10^{-3}$	(7.063 0.670 0.023)$\times10^{-2}$
17.98 – 18.99	(2.930 0.070 0.042)$\times10^{-2}$	(1.916 0.190 0.048)$\times10^{-3}$	(6.537 0.700 0.022)$\times10^{-2}$
18.99 – 20.04	(2.577 0.063 0.038)$\times10^{-2}$	(1.377 0.150 0.035)$\times10^{-3}$	(5.821 0.670 0.020)$\times10^{-2}$
20.04 – 21.13	(2.170 0.056 0.032)$\times10^{-2}$	(1.547 0.150 0.039)$\times10^{-3}$	(7.629 0.820 0.026)$\times10^{-2}$
21.13 – 22.25	(1.913 0.051 0.028)$\times10^{-2}$	(1.018 0.120 0.026)$\times10^{-3}$	(5.596 0.710 0.019)$\times10^{-2}$
22.25 – 23.42	(1.526 0.044 0.023)$\times10^{-2}$	(1.068 0.120 0.027)$\times10^{-3}$	(7.262 0.900 0.025)$\times10^{-2}$
23.42 – 24.62	(1.364 0.040 0.021)$\times10^{-2}$	(8.559 1.000 0.220)$\times10^{-4}$	(6.978 0.910 0.024)$\times10^{-2}$
24.62 – 25.90	(1.122 0.034 0.017)$\times10^{-2}$	(7.330 0.910 0.190)$\times10^{-4}$	(6.984 0.940 0.024)$\times10^{-2}$

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TABLE SM XL – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.916 0.310 0.150)$\times10^{-3}$	(5.347 0.750 0.140)$\times10^{-4}$	(5.453 0.830 0.019)$\times10^{-2}$
27.25 – 28.68	(7.828 0.270 0.120)$\times10^{-3}$	(5.562 0.740 0.140)$\times10^{-4}$	(8.074 1.100 0.028)$\times10^{-2}$
28.68 – 30.21	(6.564 0.230 0.100)$\times10^{-3}$	(5.217 0.680 0.130)$\times10^{-4}$	(8.227 1.200 0.029)$\times10^{-2}$
30.21 – 31.82	(5.749 0.210 0.091)$\times10^{-3}$	(5.304 0.660 0.140)$\times10^{-4}$	(8.526 1.200 0.030)$\times10^{-2}$
31.82 – 33.53	(4.442 0.180 0.071)$\times10^{-3}$	(3.363 0.510 0.086)$\times10^{-4}$	(7.297 1.200 0.026)$\times10^{-2}$
33.53 – 35.36	(4.152 0.170 0.067)$\times10^{-3}$	(3.319 0.490 0.085)$\times10^{-4}$	(8.399 1.400 0.030)$\times10^{-2}$
35.36 – 37.31	(3.844 0.150 0.063)$\times10^{-3}$	(3.030 0.450 0.078)$\times10^{-4}$	(8.502 1.400 0.031)$\times10^{-2}$
37.31 – 39.39	(3.003 0.130 0.050)$\times10^{-3}$	(2.353 0.390 0.060)$\times10^{-4}$	(8.267 1.500 0.031)$\times10^{-2}$
39.39 – 41.61	(2.468 0.120 0.041)$\times10^{-3}$	(2.274 0.370 0.058)$\times10^{-4}$	(9.340 1.700 0.036)$\times10^{-2}$
41.61 – 44.00	(1.822 0.097 0.031)$\times10^{-3}$	(2.131 0.350 0.055)$\times10^{-4}$	(12.66 2.300 0.050)$\times10^{-2}$
44.00 – 46.57	(1.564 0.087 0.027)$\times10^{-3}$	(1.628 0.290 0.042)$\times10^{-4}$	(9.667 2.000 0.039)$\times10^{-2}$
46.57 – 49.33	(1.350 0.078 0.023)$\times10^{-3}$	(1.048 0.230 0.027)$\times10^{-4}$	(6.575 1.800 0.028)$\times10^{-2}$

TABLE SM XLI: For Bartels Rotation 2465 (April 02, 2014 – April 28, 2014), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(9.758 0.190 0.170)$\times10^{0}$	(1.108 0.067 0.020)$\times10^{0}$	(11.05 0.740 0.130)$\times10^{-2}$
1.22 – 1.46	(9.589 0.150 0.140)$\times10^{0}$	(8.106 0.450 0.120)$\times10^{-1}$	(8.538 0.500 0.094)$\times10^{-2}$
1.46 – 1.72	(8.445 0.100 0.110)$\times10^{0}$	(7.392 0.320 0.100)$\times10^{-1}$	(8.547 0.400 0.091)$\times10^{-2}$
1.72 – 2.00	(7.189 0.076 0.081)$\times10^{0}$	(5.917 0.220 0.079)$\times10^{-1}$	(8.079 0.340 0.083)$\times10^{-2}$
2.00 – 2.31	(6.063 0.056 0.061)$\times10^{0}$	(4.641 0.160 0.061)$\times10^{-1}$	(7.691 0.290 0.077)$\times10^{-2}$
2.31 – 2.65	(5.069 0.044 0.046)$\times10^{0}$	(3.595 0.120 0.048)$\times10^{-1}$	(7.235 0.260 0.069)$\times10^{-2}$
2.65 – 3.00	(4.215 0.035 0.037)$\times10^{0}$	(3.062 0.099 0.043)$\times10^{-1}$	(7.409 0.260 0.067)$\times10^{-2}$
3.00 – 3.36	(3.470 0.029 0.031)$\times10^{0}$	(2.350 0.078 0.034)$\times10^{-1}$	(6.749 0.240 0.058)$\times10^{-2}$
3.36 – 3.73	(2.843 0.024 0.025)$\times10^{0}$	(1.843 0.064 0.028)$\times10^{-1}$	(6.537 0.240 0.053)$\times10^{-2}$
3.73 – 4.12	(2.356 0.020 0.021)$\times10^{0}$	(1.489 0.052 0.024)$\times10^{-1}$	(6.278 0.240 0.047)$\times10^{-2}$
4.12 – 4.54	(1.925 0.016 0.018)$\times10^{0}$	(1.160 0.042 0.019)$\times10^{-1}$	(6.042 0.230 0.042)$\times10^{-2}$
4.54 – 5.00	(1.542 0.013 0.015)$\times10^{0}$	(8.801 0.330 0.150)$\times10^{-2}$	(5.911 0.230 0.037)$\times10^{-2}$
5.00 – 5.49	(1.243 0.011 0.012)$\times10^{0}$	(7.026 0.270 0.120)$\times10^{-2}$	(5.685 0.230 0.032)$\times10^{-2}$
5.49 – 6.00	(9.928 0.089 0.100)$\times10^{-1}$	(5.888 0.230 0.110)$\times10^{-2}$	(6.004 0.250 0.030)$\times10^{-2}$
6.00 – 6.54	(7.819 0.072 0.085)$\times10^{-1}$	(4.122 0.170 0.075)$\times10^{-2}$	(5.268 0.240 0.023)$\times10^{-2}$
6.54 – 7.10	(6.309 0.061 0.071)$\times10^{-1}$	(3.571 0.150 0.067)$\times10^{-2}$	(5.358 0.250 0.021)$\times10^{-2}$
7.10 – 7.69	(5.061 0.051 0.059)$\times10^{-1}$	(2.703 0.120 0.052)$\times10^{-2}$	(5.443 0.260 0.019)$\times10^{-2}$
7.69 – 8.30	(3.973 0.043 0.047)$\times10^{-1}$	(2.042 0.100 0.040)$\times10^{-2}$	(5.233 0.280 0.018)$\times10^{-2}$
8.30 – 8.95	(3.202 0.036 0.039)$\times10^{-1}$	(1.761 0.089 0.035)$\times10^{-2}$	(5.488 0.300 0.019)$\times10^{-2}$
8.95 – 9.62	(2.649 0.031 0.033)$\times10^{-1}$	(1.554 0.080 0.032)$\times10^{-2}$	(5.649 0.320 0.019)$\times10^{-2}$
9.62 – 10.32	(2.110 0.027 0.027)$\times10^{-1}$	(1.183 0.067 0.025)$\times10^{-2}$	(5.610 0.340 0.018)$\times10^{-2}$
10.32 – 11.04	(1.693 0.023 0.022)$\times10^{-1}$	(9.745 0.580 0.210)$\times10^{-3}$	(5.824 0.370 0.019)$\times10^{-2}$
11.04 – 11.80	(1.386 0.020 0.018)$\times10^{-1}$	(8.692 0.520 0.190)$\times10^{-3}$	(6.274 0.410 0.020)$\times10^{-2}$
11.80 – 12.59	(1.121 0.017 0.015)$\times10^{-1}$	(6.323 0.430 0.140)$\times10^{-3}$	(5.886 0.430 0.019)$\times10^{-2}$
12.59 – 13.41	(9.265 0.150 0.120)$\times10^{-2}$	(5.337 0.380 0.120)$\times10^{-3}$	(5.688 0.450 0.018)$\times10^{-2}$
13.41 – 14.25	(7.403 0.130 0.100)$\times10^{-2}$	(4.349 0.330 0.100)$\times10^{-3}$	(5.732 0.490 0.018)$\times10^{-2}$
14.25 – 15.14	(6.370 0.120 0.088)$\times10^{-2}$	(3.860 0.300 0.093)$\times10^{-3}$	(5.892 0.510 0.019)$\times10^{-2}$
15.14 – 16.05	(5.115 0.100 0.071)$\times10^{-2}$	(2.992 0.260 0.073)$\times10^{-3}$	(6.273 0.570 0.020)$\times10^{-2}$
16.05 – 17.00	(4.367 0.091 0.062)$\times10^{-2}$	(2.430 0.220 0.060)$\times10^{-3}$	(5.850 0.580 0.019)$\times10^{-2}$
17.00 – 17.98	(3.523 0.079 0.050)$\times10^{-2}$	(2.334 0.210 0.058)$\times10^{-3}$	(6.945 0.680 0.023)$\times10^{-2}$
17.98 – 18.99	(2.979 0.070 0.043)$\times10^{-2}$	(1.555 0.170 0.039)$\times10^{-3}$	(5.387 0.620 0.018)$\times10^{-2}$
18.99 – 20.04	(2.665 0.064 0.039)$\times10^{-2}$	(1.484 0.160 0.037)$\times10^{-3}$	(5.608 0.660 0.019)$\times10^{-2}$
20.04 – 21.13	(2.050 0.054 0.030)$\times10^{-2}$	(1.492 0.150 0.038)$\times10^{-3}$	(7.100 0.810 0.024)$\times10^{-2}$
21.13 – 22.25	(1.850 0.050 0.028)$\times10^{-2}$	(1.102 0.130 0.028)$\times10^{-3}$	(5.752 0.740 0.020)$\times10^{-2}$
22.25 – 23.42	(1.450 0.043 0.022)$\times10^{-2}$	(1.175 0.130 0.030)$\times10^{-3}$	(8.326 0.970 0.028)$\times10^{-2}$
23.42 – 24.62	(1.242 0.038 0.019)$\times10^{-2}$	(7.836 1.000 0.200)$\times10^{-4}$	(6.752 0.910 0.023)$\times10^{-2}$
24.62 – 25.90	(1.117 0.034 0.017)$\times10^{-2}$	(8.795 0.990 0.230)$\times10^{-4}$	(7.931 0.990 0.027)$\times10^{-2}$

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TABLE SM XLI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.607\ 0.310\ 0.150)\times10^{-3}$	$(5.844\ 0.780\ 0.150)\times10^{-4}$	$(6.397\ 0.920\ 0.022)\times10^{-2}$
27.25 – 28.68	$(7.894\ 0.270\ 0.120)\times10^{-3}$	$(6.819\ 0.810\ 0.180)\times10^{-4}$	$(8.850\ 1.200\ 0.031)\times10^{-2}$
28.68 – 30.21	$(6.606\ 0.230\ 0.100)\times10^{-3}$	$(4.823\ 0.650\ 0.120)\times10^{-4}$	$(7.214\ 1.100\ 0.025)\times10^{-2}$
30.21 – 31.82	$(5.349\ 0.200\ 0.085)\times10^{-3}$	$(4.302\ 0.600\ 0.110)\times10^{-4}$	$(7.237\ 1.200\ 0.025)\times10^{-2}$
31.82 – 33.53	$(5.046\ 0.190\ 0.081)\times10^{-3}$	$(4.037\ 0.560\ 0.100)\times10^{-4}$	$(8.286\ 1.300\ 0.029)\times10^{-2}$
33.53 – 35.36	$(4.052\ 0.160\ 0.066)\times10^{-3}$	$(2.841\ 0.450\ 0.073)\times10^{-4}$	$(7.583\ 1.300\ 0.027)\times10^{-2}$
35.36 – 37.31	$(3.286\ 0.140\ 0.054)\times10^{-3}$	$(2.810\ 0.440\ 0.072)\times10^{-4}$	$(9.194\ 1.600\ 0.034)\times10^{-2}$
37.31 – 39.39	$(2.593\ 0.120\ 0.043)\times10^{-3}$	$(2.768\ 0.410\ 0.071)\times10^{-4}$	$(10.39\ 1.800\ 0.039)\times10^{-2}$
39.39 – 41.61	$(2.564\ 0.120\ 0.043)\times10^{-3}$	$(1.855\ 0.340\ 0.048)\times10^{-4}$	$(7.486\ 1.500\ 0.029)\times10^{-2}$
41.61 – 44.00	$(2.106\ 0.100\ 0.036)\times10^{-3}$	$(1.560\ 0.300\ 0.040)\times10^{-4}$	$(7.628\ 1.600\ 0.030)\times10^{-2}$
44.00 – 46.57	$(1.550\ 0.087\ 0.027)\times10^{-3}$	$(1.506\ 0.280\ 0.039)\times10^{-4}$	$(8.594\ 1.900\ 0.035)\times10^{-2}$
46.57 – 49.33	$(1.467\ 0.082\ 0.025)\times10^{-3}$	$(1.211\ 0.240\ 0.031)\times10^{-4}$	$(7.922\ 1.800\ 0.033)\times10^{-2}$

TABLE SM XLII: For Bartels Rotation 2466 (April 29, 2014 – May 25, 2014), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.066 0.020 0.018)$\times10^{1}$	(1.191 0.071 0.021)$\times10^{0}$	(11.31 0.730 0.130)$\times10^{-2}$
1.22 – 1.46	(9.974 0.150 0.150)$\times10^{0}$	(1.004 0.051 0.015)$\times10^{0}$	(10.40 0.570 0.110)$\times10^{-2}$
1.46 – 1.72	(8.962 0.110 0.110)$\times10^{0}$	(8.130 0.340 0.110)$\times10^{-1}$	(9.196 0.420 0.098)$\times10^{-2}$
1.72 – 2.00	(7.688 0.080 0.086)$\times10^{0}$	(6.255 0.240 0.084)$\times10^{-1}$	(8.151 0.340 0.084)$\times10^{-2}$
2.00 – 2.31	(6.515 0.060 0.065)$\times10^{0}$	(5.071 0.170 0.067)$\times10^{-1}$	(7.833 0.290 0.078)$\times10^{-2}$
2.31 – 2.65	(5.442 0.046 0.050)$\times10^{0}$	(4.010 0.130 0.054)$\times10^{-1}$	(7.406 0.260 0.071)$\times10^{-2}$
2.65 – 3.00	(4.512 0.037 0.040)$\times10^{0}$	(3.102 0.100 0.043)$\times10^{-1}$	(6.968 0.250 0.063)$\times10^{-2}$
3.00 – 3.36	(3.671 0.030 0.033)$\times10^{0}$	(2.500 0.083 0.037)$\times10^{-1}$	(6.765 0.240 0.058)$\times10^{-2}$
3.36 – 3.73	(3.019 0.025 0.027)$\times10^{0}$	(2.053 0.069 0.031)$\times10^{-1}$	(6.713 0.240 0.054)$\times10^{-2}$
3.73 – 4.12	(2.462 0.021 0.022)$\times10^{0}$	(1.346 0.051 0.021)$\times10^{-1}$	(5.591 0.220 0.042)$\times10^{-2}$
4.12 – 4.54	(2.008 0.017 0.019)$\times10^{0}$	(1.169 0.043 0.019)$\times10^{-1}$	(5.769 0.230 0.040)$\times10^{-2}$
4.54 – 5.00	(1.620 0.014 0.016)$\times10^{0}$	(9.327 0.350 0.160)$\times10^{-2}$	(5.728 0.230 0.036)$\times10^{-2}$
5.00 – 5.49	(1.301 0.011 0.013)$\times10^{0}$	(7.800 0.290 0.140)$\times10^{-2}$	(5.935 0.240 0.034)$\times10^{-2}$
5.49 – 6.00	(1.039 0.009 0.011)$\times10^{0}$	(5.895 0.230 0.110)$\times10^{-2}$	(5.690 0.240 0.029)$\times10^{-2}$
6.00 – 6.54	(8.190 0.075 0.089)$\times10^{-1}$	(4.370 0.180 0.080)$\times10^{-2}$	(5.311 0.240 0.023)$\times10^{-2}$
6.54 – 7.10	(6.510 0.062 0.073)$\times10^{-1}$	(3.715 0.160 0.069)$\times10^{-2}$	(5.866 0.260 0.023)$\times10^{-2}$
7.10 – 7.69	(5.200 0.052 0.060)$\times10^{-1}$	(2.768 0.130 0.053)$\times10^{-2}$	(5.672 0.270 0.020)$\times10^{-2}$
7.69 – 8.30	(4.218 0.044 0.050)$\times10^{-1}$	(2.397 0.110 0.047)$\times10^{-2}$	(5.597 0.280 0.019)$\times10^{-2}$
8.30 – 8.95	(3.279 0.037 0.040)$\times10^{-1}$	(1.954 0.095 0.039)$\times10^{-2}$	(5.958 0.310 0.020)$\times10^{-2}$
8.95 – 9.62	(2.706 0.032 0.033)$\times10^{-1}$	(1.522 0.080 0.031)$\times10^{-2}$	(5.645 0.320 0.019)$\times10^{-2}$
9.62 – 10.32	(2.113 0.027 0.027)$\times10^{-1}$	(1.469 0.074 0.031)$\times10^{-2}$	(6.955 0.380 0.023)$\times10^{-2}$
10.32 – 11.04	(1.760 0.024 0.023)$\times10^{-1}$	(8.978 0.560 0.190)$\times10^{-3}$	(5.620 0.370 0.018)$\times10^{-2}$
11.04 – 11.80	(1.449 0.021 0.019)$\times10^{-1}$	(8.138 0.510 0.180)$\times10^{-3}$	(5.832 0.390 0.019)$\times10^{-2}$
11.80 – 12.59	(1.153 0.018 0.015)$\times10^{-1}$	(6.975 0.450 0.160)$\times10^{-3}$	(6.162 0.430 0.020)$\times10^{-2}$
12.59 – 13.41	(9.500 0.150 0.130)$\times10^{-2}$	(5.475 0.390 0.130)$\times10^{-3}$	(5.782 0.440 0.018)$\times10^{-2}$
13.41 – 14.25	(7.652 0.130 0.100)$\times10^{-2}$	(4.309 0.330 0.100)$\times10^{-3}$	(5.330 0.460 0.017)$\times10^{-2}$
14.25 – 15.14	(6.300 0.120 0.087)$\times10^{-2}$	(3.509 0.290 0.084)$\times10^{-3}$	(5.256 0.480 0.017)$\times10^{-2}$
15.14 – 16.05	(5.348 0.100 0.075)$\times10^{-2}$	(2.965 0.260 0.072)$\times10^{-3}$	(5.254 0.510 0.017)$\times10^{-2}$
16.05 – 17.00	(4.318 0.091 0.061)$\times10^{-2}$	(2.624 0.230 0.065)$\times10^{-3}$	(6.259 0.600 0.021)$\times10^{-2}$
17.00 – 17.98	(3.619 0.080 0.052)$\times10^{-2}$	(2.098 0.200 0.052)$\times10^{-3}$	(5.994 0.620 0.020)$\times10^{-2}$
17.98 – 18.99	(3.017 0.071 0.044)$\times10^{-2}$	(2.248 0.200 0.056)$\times10^{-3}$	(8.613 0.810 0.029)$\times10^{-2}$
18.99 – 20.04	(2.536 0.063 0.037)$\times10^{-2}$	(1.445 0.160 0.037)$\times10^{-3}$	(5.897 0.700 0.020)$\times10^{-2}$
20.04 – 21.13	(2.146 0.056 0.032)$\times10^{-2}$	(1.206 0.140 0.031)$\times10^{-3}$	(5.453 0.700 0.018)$\times10^{-2}$
21.13 – 22.25	(1.809 0.050 0.027)$\times10^{-2}$	(1.366 0.140 0.035)$\times10^{-3}$	(8.223 0.920 0.028)$\times10^{-2}$
22.25 – 23.42	(1.583 0.045 0.024)$\times10^{-2}$	(1.093 0.120 0.028)$\times10^{-3}$	(7.307 0.890 0.025)$\times10^{-2}$
23.42 – 24.62	(1.344 0.040 0.020)$\times10^{-2}$	(8.525 1.000 0.220)$\times10^{-4}$	(6.556 0.860 0.022)$\times10^{-2}$
24.62 – 25.90	(1.072 0.034 0.016)$\times10^{-2}$	(7.718 0.940 0.200)$\times10^{-4}$	(6.896 0.950 0.024)$\times10^{-2}$

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TABLE SM XLII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.729\ 0.310\ 0.150)\times10^{-3}$	$(7.786\ 0.910\ 0.200)\times10^{-4}$	$(7.592\ 1.000\ 0.026)\times10^{-2}$
27.25 – 28.68	$(8.110\ 0.270\ 0.130)\times10^{-3}$	$(5.825\ 0.750\ 0.150)\times10^{-4}$	$(6.546\ 0.970\ 0.023)\times10^{-2}$
28.68 – 30.21	$(6.312\ 0.230\ 0.099)\times10^{-3}$	$(5.212\ 0.680\ 0.130)\times10^{-4}$	$(8.109\ 1.200\ 0.028)\times10^{-2}$
30.21 – 31.82	$(5.734\ 0.210\ 0.091)\times10^{-3}$	$(4.593\ 0.620\ 0.120)\times10^{-4}$	$(7.314\ 1.200\ 0.026)\times10^{-2}$
31.82 – 33.53	$(4.711\ 0.180\ 0.075)\times10^{-3}$	$(4.799\ 0.610\ 0.120)\times10^{-4}$	$(9.595\ 1.400\ 0.034)\times10^{-2}$
33.53 – 35.36	$(4.234\ 0.170\ 0.068)\times10^{-3}$	$(4.350\ 0.560\ 0.110)\times10^{-4}$	$(11.23\ 1.600\ 0.040)\times10^{-2}$
35.36 – 37.31	$(3.305\ 0.140\ 0.054)\times10^{-3}$	$(2.380\ 0.410\ 0.061)\times10^{-4}$	$(7.413\ 1.400\ 0.027)\times10^{-2}$
37.31 – 39.39	$(2.686\ 0.130\ 0.044)\times10^{-3}$	$(2.336\ 0.390\ 0.060)\times10^{-4}$	$(9.400\ 1.700\ 0.035)\times10^{-2}$
39.39 – 41.61	$(2.555\ 0.120\ 0.043)\times10^{-3}$	$(9.929\ 2.600\ 0.250)\times10^{-5}$	$(4.321\ 1.200\ 0.017)\times10^{-2}$
41.61 – 44.00	$(2.009\ 0.100\ 0.034)\times10^{-3}$	$(2.043\ 0.340\ 0.052)\times10^{-4}$	$(10.43\ 1.900\ 0.041)\times10^{-2}$
44.00 – 46.57	$(1.667\ 0.090\ 0.029)\times10^{-3}$	$(1.764\ 0.300\ 0.045)\times10^{-4}$	$(9.357\ 1.900\ 0.038)\times10^{-2}$
46.57 – 49.33	$(1.373\ 0.079\ 0.024)\times10^{-3}$	$(8.380\ 2.000\ 0.220)\times10^{-5}$	$(6.687\ 1.700\ 0.028)\times10^{-2}$

TABLE SM XLIII: For Bartels Rotation 2467 (May 26, 2014 – June 21, 2014), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.074 0.020 0.018)$\times10^{1}$	(1.140 0.068 0.020)$\times10^{0}$	(10.24 0.670 0.120)$\times10^{-2}$
1.22 – 1.46	(9.873 0.150 0.140)$\times10^{0}$	(9.654 0.480 0.150)$\times10^{-1}$	(9.624 0.520 0.110)$\times10^{-2}$
1.46 – 1.72	(8.663 0.110 0.110)$\times10^{0}$	(8.445 0.340 0.120)$\times10^{-1}$	(9.791 0.430 0.100)$\times10^{-2}$
1.72 – 2.00	(7.288 0.076 0.082)$\times10^{0}$	(6.535 0.240 0.087)$\times10^{-1}$	(9.091 0.360 0.093)$\times10^{-2}$
2.00 – 2.31	(6.184 0.057 0.062)$\times10^{0}$	(4.780 0.160 0.063)$\times10^{-1}$	(7.650 0.290 0.076)$\times10^{-2}$
2.31 – 2.65	(5.243 0.044 0.048)$\times10^{0}$	(4.074 0.130 0.055)$\times10^{-1}$	(7.746 0.260 0.074)$\times10^{-2}$
2.65 – 3.00	(4.284 0.036 0.038)$\times10^{0}$	(3.030 0.098 0.042)$\times10^{-1}$	(7.243 0.250 0.066)$\times10^{-2}$
3.00 – 3.36	(3.560 0.029 0.032)$\times10^{0}$	(2.332 0.079 0.034)$\times10^{-1}$	(6.681 0.240 0.058)$\times10^{-2}$
3.36 – 3.73	(2.910 0.024 0.026)$\times10^{0}$	(1.887 0.065 0.029)$\times10^{-1}$	(6.773 0.250 0.055)$\times10^{-2}$
3.73 – 4.12	(2.345 0.020 0.021)$\times10^{0}$	(1.542 0.053 0.024)$\times10^{-1}$	(6.484 0.240 0.049)$\times10^{-2}$
4.12 – 4.54	(1.909 0.016 0.018)$\times10^{0}$	(1.210 0.043 0.020)$\times10^{-1}$	(6.432 0.240 0.045)$\times10^{-2}$
4.54 – 5.00	(1.550 0.013 0.015)$\times10^{0}$	(9.093 0.340 0.150)$\times10^{-2}$	(5.899 0.230 0.037)$\times10^{-2}$
5.00 – 5.49	(1.230 0.011 0.012)$\times10^{0}$	(7.456 0.280 0.130)$\times10^{-2}$	(6.197 0.250 0.035)$\times10^{-2}$
5.49 – 6.00	(9.780 0.088 0.100)$\times10^{-1}$	(5.784 0.220 0.100)$\times10^{-2}$	(5.856 0.250 0.030)$\times10^{-2}$
6.00 – 6.54	(7.775 0.072 0.085)$\times10^{-1}$	(4.443 0.180 0.081)$\times10^{-2}$	(5.742 0.250 0.025)$\times10^{-2}$
6.54 – 7.10	(6.276 0.060 0.071)$\times10^{-1}$	(3.490 0.150 0.065)$\times10^{-2}$	(5.596 0.260 0.021)$\times10^{-2}$
7.10 – 7.69	(4.934 0.050 0.057)$\times10^{-1}$	(3.049 0.130 0.058)$\times10^{-2}$	(6.163 0.290 0.022)$\times10^{-2}$
7.69 – 8.30	(4.032 0.043 0.048)$\times10^{-1}$	(2.174 0.110 0.043)$\times10^{-2}$	(5.550 0.290 0.019)$\times10^{-2}$
8.30 – 8.95	(3.220 0.036 0.039)$\times10^{-1}$	(1.886 0.092 0.038)$\times10^{-2}$	(5.714 0.300 0.019)$\times10^{-2}$
8.95 – 9.62	(2.593 0.031 0.032)$\times10^{-1}$	(1.409 0.077 0.029)$\times10^{-2}$	(5.483 0.320 0.018)$\times10^{-2}$
9.62 – 10.32	(2.063 0.027 0.026)$\times10^{-1}$	(1.192 0.067 0.025)$\times10^{-2}$	(5.778 0.350 0.019)$\times10^{-2}$
10.32 – 11.04	(1.674 0.023 0.021)$\times10^{-1}$	(9.470 0.570 0.210)$\times10^{-3}$	(5.462 0.370 0.018)$\times10^{-2}$
11.04 – 11.80	(1.339 0.020 0.017)$\times10^{-1}$	(8.144 0.500 0.180)$\times10^{-3}$	(6.028 0.410 0.019)$\times10^{-2}$
11.80 – 12.59	(1.131 0.017 0.015)$\times10^{-1}$	(6.255 0.430 0.140)$\times10^{-3}$	(5.462 0.410 0.017)$\times10^{-2}$
12.59 – 13.41	(9.185 0.150 0.120)$\times10^{-2}$	(5.568 0.390 0.130)$\times10^{-3}$	(5.806 0.450 0.019)$\times10^{-2}$
13.41 – 14.25	(7.675 0.130 0.100)$\times10^{-2}$	(4.482 0.340 0.110)$\times10^{-3}$	(5.818 0.480 0.019)$\times10^{-2}$
14.25 – 15.14	(6.184 0.120 0.085)$\times10^{-2}$	(3.465 0.280 0.083)$\times10^{-3}$	(6.094 0.520 0.020)$\times10^{-2}$
15.14 – 16.05	(5.245 0.100 0.073)$\times10^{-2}$	(3.595 0.280 0.087)$\times10^{-3}$	(6.676 0.580 0.022)$\times10^{-2}$
16.05 – 17.00	(4.145 0.089 0.059)$\times10^{-2}$	(3.046 0.250 0.075)$\times10^{-3}$	(7.447 0.670 0.024)$\times10^{-2}$
17.00 – 17.98	(3.539 0.079 0.051)$\times10^{-2}$	(1.879 0.190 0.047)$\times10^{-3}$	(5.329 0.580 0.018)$\times10^{-2}$
17.98 – 18.99	(2.921 0.070 0.042)$\times10^{-2}$	(1.855 0.180 0.047)$\times10^{-3}$	(6.213 0.690 0.021)$\times10^{-2}$
18.99 – 20.04	(2.589 0.064 0.038)$\times10^{-2}$	(1.681 0.170 0.042)$\times10^{-3}$	(6.024 0.690 0.020)$\times10^{-2}$
20.04 – 21.13	(2.086 0.055 0.031)$\times10^{-2}$	(1.595 0.160 0.041)$\times10^{-3}$	(8.383 0.890 0.028)$\times10^{-2}$
21.13 – 22.25	(1.793 0.050 0.027)$\times10^{-2}$	(1.120 0.130 0.029)$\times10^{-3}$	(5.962 0.770 0.020)$\times10^{-2}$
22.25 – 23.42	(1.490 0.044 0.022)$\times10^{-2}$	(9.860 1.200 0.250)$\times10^{-4}$	(6.754 0.870 0.023)$\times10^{-2}$
23.42 – 24.62	(1.293 0.039 0.020)$\times10^{-2}$	(9.508 1.100 0.240)$\times10^{-4}$	(6.974 0.930 0.024)$\times10^{-2}$
24.62 – 25.90	(1.069 0.034 0.016)$\times10^{-2}$	(7.415 0.940 0.190)$\times10^{-4}$	(6.751 0.960 0.023)$\times10^{-2}$

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TABLE SM XLIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.144\ 0.300\ 0.140)\times10^{-3}$	$(9.946\ 1.000\ 0.260)\times10^{-4}$	$(10.76\ 1.300\ 0.037)\times10^{-2}$
27.25 – 28.68	$(7.557\ 0.270\ 0.120)\times10^{-3}$	$(4.893\ 0.700\ 0.130)\times10^{-4}$	$(6.764\ 1.000\ 0.023)\times10^{-2}$
28.68 – 30.21	$(6.766\ 0.240\ 0.110)\times10^{-3}$	$(5.350\ 0.710\ 0.140)\times10^{-4}$	$(8.195\ 1.200\ 0.028)\times10^{-2}$
30.21 – 31.82	$(5.556\ 0.210\ 0.088)\times10^{-3}$	$(5.052\ 0.660\ 0.130)\times10^{-4}$	$(8.866\ 1.300\ 0.031)\times10^{-2}$
31.82 – 33.53	$(4.671\ 0.190\ 0.075)\times10^{-3}$	$(3.277\ 0.520\ 0.084)\times10^{-4}$	$(7.454\ 1.300\ 0.026)\times10^{-2}$
33.53 – 35.36	$(3.811\ 0.160\ 0.062)\times10^{-3}$	$(3.787\ 0.530\ 0.097)\times10^{-4}$	$(9.047\ 1.500\ 0.033)\times10^{-2}$
35.36 – 37.31	$(3.376\ 0.150\ 0.055)\times10^{-3}$	$(2.915\ 0.450\ 0.075)\times10^{-4}$	$(8.612\ 1.500\ 0.032)\times10^{-2}$
37.31 – 39.39	$(2.870\ 0.130\ 0.048)\times10^{-3}$	$(3.076\ 0.440\ 0.079)\times10^{-4}$	$(8.778\ 1.600\ 0.033)\times10^{-2}$
39.39 – 41.61	$(2.408\ 0.120\ 0.040)\times10^{-3}$	$(2.133\ 0.370\ 0.055)\times10^{-4}$	$(9.968\ 1.900\ 0.038)\times10^{-2}$
41.61 – 44.00	$(2.222\ 0.110\ 0.038)\times10^{-3}$	$(1.494\ 0.290\ 0.038)\times10^{-4}$	$(7.122\ 1.500\ 0.028)\times10^{-2}$
44.00 – 46.57	$(1.650\ 0.091\ 0.028)\times10^{-3}$	$(1.290\ 0.270\ 0.033)\times10^{-4}$	$(8.278\ 1.900\ 0.034)\times10^{-2}$
46.57 – 49.33	$(1.480\ 0.084\ 0.026)\times10^{-3}$	$(7.495\ 1.900\ 0.190)\times10^{-5}$	$(5.168\ 1.500\ 0.022)\times10^{-2}$

TABLE SM XLIV: For Bartels Rotation 2468 (June 22, 2014 – July 18, 2014), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(9.858 0.190 0.170)×10^{0}	(1.180 0.070 0.021)×10^{0}	(11.86 0.780 0.130)×10^{-2}
1.22 – 1.46	(9.054 0.140 0.130)×10^{0}	(9.259 0.480 0.140)×10^{-1}	(10.68 0.590 0.120)×10^{-2}
1.46 – 1.72	(8.124 0.100 0.100)×10^{0}	(7.500 0.320 0.100)×10^{-1}	(8.855 0.420 0.094)×10^{-2}
1.72 – 2.00	(6.854 0.074 0.077)×10^{0}	(6.021 0.230 0.081)×10^{-1}	(8.760 0.360 0.090)×10^{-2}
2.00 – 2.31	(6.011 0.057 0.060)×10^{0}	(4.695 0.160 0.062)×10^{-1}	(7.783 0.300 0.077)×10^{-2}
2.31 – 2.65	(4.946 0.043 0.045)×10^{0}	(4.020 0.130 0.054)×10^{-1}	(8.226 0.280 0.079)×10^{-2}
2.65 – 3.00	(4.142 0.035 0.037)×10^{0}	(3.045 0.099 0.043)×10^{-1}	(7.557 0.260 0.069)×10^{-2}
3.00 – 3.36	(3.375 0.029 0.030)×10^{0}	(2.423 0.080 0.036)×10^{-1}	(7.191 0.260 0.062)×10^{-2}
3.36 – 3.73	(2.769 0.024 0.025)×10^{0}	(1.909 0.065 0.029)×10^{-1}	(6.767 0.250 0.055)×10^{-2}
3.73 – 4.12	(2.297 0.020 0.021)×10^{0}	(1.463 0.052 0.023)×10^{-1}	(6.527 0.250 0.049)×10^{-2}
4.12 – 4.54	(1.880 0.016 0.017)×10^{0}	(1.113 0.042 0.018)×10^{-1}	(5.872 0.240 0.041)×10^{-2}
4.54 – 5.00	(1.506 0.013 0.014)×10^{0}	(8.769 0.330 0.150)×10^{-2}	(5.875 0.240 0.037)×10^{-2}
5.00 – 5.49	(1.202 0.011 0.012)×10^{0}	(7.691 0.280 0.130)×10^{-2}	(6.221 0.250 0.035)×10^{-2}
5.49 – 6.00	(9.824 0.088 0.100)×10^{-1}	(5.998 0.230 0.110)×10^{-2}	(6.120 0.250 0.031)×10^{-2}
6.00 – 6.54	(7.797 0.072 0.085)×10^{-1}	(4.074 0.170 0.074)×10^{-2}	(5.263 0.240 0.023)×10^{-2}
6.54 – 7.10	(6.187 0.060 0.070)×10^{-1}	(3.452 0.150 0.064)×10^{-2}	(5.812 0.260 0.022)×10^{-2}
7.10 – 7.69	(4.973 0.050 0.058)×10^{-1}	(2.667 0.120 0.051)×10^{-2}	(5.347 0.260 0.019)×10^{-2}
7.69 – 8.30	(3.989 0.043 0.047)×10^{-1}	(2.319 0.110 0.045)×10^{-2}	(5.846 0.290 0.020)×10^{-2}
8.30 – 8.95	(3.241 0.036 0.039)×10^{-1}	(2.011 0.095 0.040)×10^{-2}	(6.084 0.310 0.021)×10^{-2}
8.95 – 9.62	(2.589 0.031 0.032)×10^{-1}	(1.440 0.077 0.030)×10^{-2}	(5.359 0.310 0.018)×10^{-2}
9.62 – 10.32	(2.123 0.027 0.027)×10^{-1}	(1.300 0.070 0.027)×10^{-2}	(6.300 0.360 0.021)×10^{-2}
10.32 – 11.04	(1.698 0.023 0.022)×10^{-1}	(1.018 0.059 0.022)×10^{-2}	(6.093 0.380 0.020)×10^{-2}
11.04 – 11.80	(1.390 0.020 0.018)×10^{-1}	(8.810 0.520 0.200)×10^{-3}	(6.289 0.410 0.020)×10^{-2}
11.80 – 12.59	(1.126 0.017 0.015)×10^{-1}	(6.404 0.430 0.150)×10^{-3}	(5.734 0.420 0.018)×10^{-2}
12.59 – 13.41	(9.012 0.150 0.120)×10^{-2}	(5.630 0.390 0.130)×10^{-3}	(6.311 0.470 0.020)×10^{-2}
13.41 – 14.25	(7.601 0.130 0.100)×10^{-2}	(4.373 0.330 0.100)×10^{-3}	(5.784 0.480 0.019)×10^{-2}
14.25 – 15.14	(6.230 0.120 0.086)×10^{-2}	(3.624 0.290 0.087)×10^{-3}	(5.712 0.500 0.018)×10^{-2}
15.14 – 16.05	(5.196 0.100 0.073)×10^{-2}	(3.583 0.280 0.087)×10^{-3}	(7.108 0.610 0.023)×10^{-2}
16.05 – 17.00	(4.463 0.091 0.063)×10^{-2}	(2.869 0.240 0.071)×10^{-3}	(6.130 0.580 0.020)×10^{-2}
17.00 – 17.98	(3.665 0.080 0.052)×10^{-2}	(2.351 0.210 0.058)×10^{-3}	(6.562 0.640 0.022)×10^{-2}
17.98 – 18.99	(2.955 0.070 0.043)×10^{-2}	(1.811 0.180 0.045)×10^{-3}	(6.281 0.690 0.021)×10^{-2}
18.99 – 20.04	(2.479 0.062 0.036)×10^{-2}	(1.648 0.170 0.042)×10^{-3}	(6.812 0.750 0.023)×10^{-2}
20.04 – 21.13	(2.152 0.056 0.032)×10^{-2}	(1.718 0.160 0.044)×10^{-3}	(7.689 0.830 0.026)×10^{-2}
21.13 – 22.25	(1.924 0.051 0.029)×10^{-2}	(1.140 0.130 0.029)×10^{-3}	(6.373 0.770 0.022)×10^{-2}
22.25 – 23.42	(1.499 0.043 0.023)×10^{-2}	(9.581 1.100 0.250)×10^{-4}	(6.305 0.830 0.021)×10^{-2}
23.42 – 24.62	(1.247 0.038 0.019)×10^{-2}	(8.905 1.100 0.230)×10^{-4}	(6.978 0.930 0.024)×10^{-2}
24.62 – 25.90	(1.091 0.034 0.017)×10^{-2}	(6.600 0.880 0.170)×10^{-4}	(6.047 0.890 0.021)×10^{-2}

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TABLE SM XLIV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.255\ 0.300\ 0.140)\times10^{-3}$	$(5.424\ 0.760\ 0.140)\times10^{-4}$	$(5.736\ 0.880\ 0.020)\times10^{-2}$
27.25 – 28.68	$(7.784\ 0.260\ 0.120)\times10^{-3}$	$(6.007\ 0.760\ 0.150)\times10^{-4}$	$(8.432\ 1.200\ 0.029)\times10^{-2}$
28.68 – 30.21	$(6.456\ 0.230\ 0.100)\times10^{-3}$	$(4.082\ 0.610\ 0.100)\times10^{-4}$	$(6.427\ 1.100\ 0.022)\times10^{-2}$
30.21 – 31.82	$(5.806\ 0.210\ 0.092)\times10^{-3}$	$(4.272\ 0.600\ 0.110)\times10^{-4}$	$(7.734\ 1.200\ 0.027)\times10^{-2}$
31.82 – 33.53	$(4.574\ 0.180\ 0.073)\times10^{-3}$	$(3.871\ 0.540\ 0.099)\times10^{-4}$	$(8.411\ 1.300\ 0.030)\times10^{-2}$
33.53 – 35.36	$(3.713\ 0.160\ 0.060)\times10^{-3}$	$(3.502\ 0.500\ 0.090)\times10^{-4}$	$(8.708\ 1.400\ 0.031)\times10^{-2}$
35.36 – 37.31	$(3.436\ 0.150\ 0.056)\times10^{-3}$	$(2.929\ 0.440\ 0.075)\times10^{-4}$	$(8.319\ 1.400\ 0.030)\times10^{-2}$
37.31 – 39.39	$(2.899\ 0.130\ 0.048)\times10^{-3}$	$(2.167\ 0.370\ 0.056)\times10^{-4}$	$(7.619\ 1.500\ 0.028)\times10^{-2}$
39.39 – 41.61	$(2.353\ 0.110\ 0.039)\times10^{-3}$	$(2.342\ 0.370\ 0.060)\times10^{-4}$	$(9.275\ 1.700\ 0.036)\times10^{-2}$
41.61 – 44.00	$(2.037\ 0.100\ 0.034)\times10^{-3}$	$(1.675\ 0.300\ 0.043)\times10^{-4}$	$(8.849\ 1.700\ 0.035)\times10^{-2}$
44.00 – 46.57	$(1.707\ 0.091\ 0.029)\times10^{-3}$	$(1.190\ 0.250\ 0.031)\times10^{-4}$	$(6.642\ 1.600\ 0.027)\times10^{-2}$
46.57 – 49.33	$(1.298\ 0.077\ 0.022)\times10^{-3}$	$(1.089\ 0.230\ 0.028)\times10^{-4}$	$(7.113\ 1.800\ 0.030)\times10^{-2}$

TABLE SM XLV: For Bartels Rotation 2469 (July 19, 2014 – August 14, 2014), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.054 0.020 0.018)×10^{1}	(1.147 0.069 0.021)×10^{0}	(10.52 0.700 0.120)×10^{-2}
1.22 – 1.46	(9.429 0.150 0.140)×10^{0}	(1.049 0.051 0.016)×10^{0}	(11.03 0.590 0.120)×10^{-2}
1.46 – 1.72	(8.499 0.110 0.110)×10^{0}	(8.765 0.350 0.120)×10^{-1}	(10.34 0.450 0.110)×10^{-2}
1.72 – 2.00	(7.381 0.078 0.083)×10^{0}	(6.880 0.250 0.092)×10^{-1}	(9.217 0.360 0.095)×10^{-2}
2.00 – 2.31	(6.268 0.058 0.063)×10^{0}	(5.235 0.170 0.069)×10^{-1}	(8.574 0.310 0.085)×10^{-2}
2.31 – 2.65	(5.280 0.045 0.048)×10^{0}	(3.934 0.130 0.053)×10^{-1}	(7.458 0.260 0.071)×10^{-2}
2.65 – 3.00	(4.360 0.036 0.039)×10^{0}	(3.183 0.100 0.045)×10^{-1}	(7.251 0.250 0.066)×10^{-2}
3.00 – 3.36	(3.584 0.030 0.032)×10^{0}	(2.486 0.082 0.036)×10^{-1}	(7.013 0.250 0.060)×10^{-2}
3.36 – 3.73	(2.924 0.025 0.026)×10^{0}	(1.956 0.067 0.030)×10^{-1}	(6.859 0.250 0.055)×10^{-2}
3.73 – 4.12	(2.410 0.020 0.022)×10^{0}	(1.572 0.054 0.025)×10^{-1}	(6.550 0.240 0.049)×10^{-2}
4.12 – 4.54	(1.972 0.017 0.018)×10^{0}	(1.216 0.044 0.020)×10^{-1}	(6.248 0.240 0.043)×10^{-2}
4.54 – 5.00	(1.577 0.013 0.015)×10^{0}	(9.680 0.350 0.160)×10^{-2}	(6.121 0.240 0.039)×10^{-2}
5.00 – 5.49	(1.246 0.011 0.012)×10^{0}	(7.302 0.280 0.130)×10^{-2}	(6.137 0.240 0.035)×10^{-2}
5.49 – 6.00	(1.018 0.009 0.011)×10^{0}	(6.232 0.230 0.110)×10^{-2}	(6.070 0.250 0.031)×10^{-2}
6.00 – 6.54	(8.029 0.074 0.087)×10^{-1}	(4.680 0.190 0.085)×10^{-2}	(5.827 0.250 0.026)×10^{-2}
6.54 – 7.10	(6.422 0.061 0.072)×10^{-1}	(3.450 0.150 0.064)×10^{-2}	(5.490 0.250 0.021)×10^{-2}
7.10 – 7.69	(5.202 0.052 0.060)×10^{-1}	(2.911 0.130 0.056)×10^{-2}	(5.699 0.270 0.020)×10^{-2}
7.69 – 8.30	(4.174 0.044 0.050)×10^{-1}	(2.312 0.110 0.045)×10^{-2}	(5.631 0.280 0.019)×10^{-2}
8.30 – 8.95	(3.280 0.037 0.040)×10^{-1}	(1.901 0.093 0.038)×10^{-2}	(5.806 0.310 0.020)×10^{-2}
8.95 – 9.62	(2.596 0.031 0.032)×10^{-1}	(1.457 0.078 0.030)×10^{-2}	(5.475 0.320 0.018)×10^{-2}
9.62 – 10.32	(2.090 0.027 0.026)×10^{-1}	(1.191 0.068 0.025)×10^{-2}	(5.836 0.350 0.019)×10^{-2}
10.32 – 11.04	(1.739 0.024 0.022)×10^{-1}	(1.053 0.061 0.023)×10^{-2}	(6.279 0.390 0.020)×10^{-2}
11.04 – 11.80	(1.401 0.020 0.018)×10^{-1}	(8.243 0.510 0.180)×10^{-3}	(5.895 0.400 0.019)×10^{-2}
11.80 – 12.59	(1.153 0.018 0.015)×10^{-1}	(7.200 0.460 0.160)×10^{-3}	(6.289 0.440 0.020)×10^{-2}
12.59 – 13.41	(9.072 0.150 0.120)×10^{-2}	(5.217 0.380 0.120)×10^{-3}	(5.850 0.460 0.019)×10^{-2}
13.41 – 14.25	(7.587 0.130 0.100)×10^{-2}	(3.885 0.320 0.092)×10^{-3}	(5.019 0.450 0.016)×10^{-2}
14.25 – 15.14	(6.306 0.120 0.087)×10^{-2}	(4.238 0.320 0.100)×10^{-3}	(6.610 0.540 0.021)×10^{-2}
15.14 – 16.05	(5.052 0.100 0.071)×10^{-2}	(3.225 0.270 0.078)×10^{-3}	(6.401 0.580 0.021)×10^{-2}
16.05 – 17.00	(4.253 0.090 0.060)×10^{-2}	(2.361 0.220 0.058)×10^{-3}	(5.913 0.590 0.019)×10^{-2}
17.00 – 17.98	(3.510 0.079 0.050)×10^{-2}	(2.078 0.200 0.052)×10^{-3}	(6.135 0.630 0.020)×10^{-2}
17.98 – 18.99	(3.006 0.071 0.043)×10^{-2}	(2.096 0.200 0.053)×10^{-3}	(7.036 0.730 0.023)×10^{-2}
18.99 – 20.04	(2.649 0.065 0.039)×10^{-2}	(1.814 0.180 0.046)×10^{-3}	(7.571 0.780 0.025)×10^{-2}
20.04 – 21.13	(2.133 0.056 0.031)×10^{-2}	(1.565 0.160 0.040)×10^{-3}	(7.778 0.850 0.026)×10^{-2}
21.13 – 22.25	(1.816 0.050 0.027)×10^{-2}	(1.002 0.120 0.026)×10^{-3}	(5.547 0.750 0.019)×10^{-2}
22.25 – 23.42	(1.486 0.044 0.022)×10^{-2}	(1.119 0.120 0.029)×10^{-3}	(8.157 0.970 0.028)×10^{-2}
23.42 – 24.62	(1.352 0.040 0.020)×10^{-2}	(1.022 0.110 0.026)×10^{-3}	(8.244 0.990 0.028)×10^{-2}
24.62 – 25.90	(1.119 0.035 0.017)×10^{-2}	(6.695 0.900 0.170)×10^{-4}	(6.377 0.910 0.022)×10^{-2}

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TABLE SM XLV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.445\ 0.310\ 0.150)\times10^{-3}$	$(6.089\ 0.810\ 0.160)\times10^{-4}$	$(6.834\ 0.990\ 0.023)\times10^{-2}$
27.25 – 28.68	$(7.819\ 0.270\ 0.120)\times10^{-3}$	$(4.984\ 0.710\ 0.130)\times10^{-4}$	$(5.780\ 0.960\ 0.020)\times10^{-2}$
28.68 – 30.21	$(6.459\ 0.240\ 0.100)\times10^{-3}$	$(5.002\ 0.680\ 0.130)\times10^{-4}$	$(8.312\ 1.200\ 0.029)\times10^{-2}$
30.21 – 31.82	$(5.263\ 0.210\ 0.083)\times10^{-3}$	$(3.865\ 0.590\ 0.099)\times10^{-4}$	$(6.900\ 1.200\ 0.024)\times10^{-2}$
31.82 – 33.53	$(4.659\ 0.190\ 0.075)\times10^{-3}$	$(3.026\ 0.500\ 0.078)\times10^{-4}$	$(6.569\ 1.200\ 0.023)\times10^{-2}$
33.53 – 35.36	$(4.079\ 0.170\ 0.066)\times10^{-3}$	$(2.846\ 0.460\ 0.073)\times10^{-4}$	$(7.048\ 1.200\ 0.025)\times10^{-2}$
35.36 – 37.31	$(3.340\ 0.150\ 0.055)\times10^{-3}$	$(3.234\ 0.480\ 0.083)\times10^{-4}$	$(9.583\ 1.600\ 0.035)\times10^{-2}$
37.31 – 39.39	$(2.851\ 0.130\ 0.047)\times10^{-3}$	$(1.907\ 0.360\ 0.049)\times10^{-4}$	$(5.698\ 1.300\ 0.021)\times10^{-2}$
39.39 – 41.61	$(2.399\ 0.120\ 0.040)\times10^{-3}$	$(1.911\ 0.350\ 0.049)\times10^{-4}$	$(8.683\ 1.700\ 0.033)\times10^{-2}$
41.61 – 44.00	$(1.959\ 0.100\ 0.033)\times10^{-3}$	$(1.106\ 0.260\ 0.028)\times10^{-4}$	$(4.712\ 1.300\ 0.019)\times10^{-2}$
44.00 – 46.57	$(1.525\ 0.088\ 0.026)\times10^{-3}$	$(1.569\ 0.300\ 0.040)\times10^{-4}$	$(9.843\ 2.200\ 0.040)\times10^{-2}$
46.57 – 49.33	$(1.458\ 0.083\ 0.025)\times10^{-3}$	$(1.182\ 0.250\ 0.030)\times10^{-4}$	$(7.740\ 1.800\ 0.033)\times10^{-2}$

TABLE SM XLVI: For Bartels Rotation 2470 (August 15, 2014 – September 10, 2014), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.143 0.021 0.019)$\times10^{1}$	(1.335 0.076 0.024)$\times10^{0}$	(11.80 0.730 0.130)$\times10^{-2}$
1.22 – 1.46	(1.027 0.016 0.015)$\times10^{1}$	(1.165 0.055 0.018)$\times10^{0}$	(11.13 0.580 0.120)$\times10^{-2}$
1.46 – 1.72	(9.265 0.110 0.120)$\times10^{0}$	(9.353 0.370 0.130)$\times10^{-1}$	(10.08 0.440 0.110)$\times10^{-2}$
1.72 – 2.00	(7.912 0.082 0.089)$\times10^{0}$	(6.955 0.250 0.093)$\times10^{-1}$	(8.649 0.340 0.089)$\times10^{-2}$
2.00 – 2.31	(6.624 0.061 0.066)$\times10^{0}$	(5.660 0.180 0.075)$\times10^{-1}$	(8.643 0.300 0.086)$\times10^{-2}$
2.31 – 2.65	(5.389 0.046 0.049)$\times10^{0}$	(4.558 0.140 0.061)$\times10^{-1}$	(8.646 0.280 0.083)$\times10^{-2}$
2.65 – 3.00	(4.563 0.037 0.040)$\times10^{0}$	(3.209 0.100 0.045)$\times10^{-1}$	(7.011 0.240 0.064)$\times10^{-2}$
3.00 – 3.36	(3.762 0.031 0.033)$\times10^{0}$	(2.563 0.084 0.038)$\times10^{-1}$	(6.881 0.240 0.059)$\times10^{-2}$
3.36 – 3.73	(3.112 0.026 0.028)$\times10^{0}$	(2.119 0.070 0.032)$\times10^{-1}$	(6.795 0.240 0.055)$\times10^{-2}$
3.73 – 4.12	(2.513 0.021 0.023)$\times10^{0}$	(1.583 0.055 0.025)$\times10^{-1}$	(6.415 0.240 0.048)$\times10^{-2}$
4.12 – 4.54	(2.021 0.017 0.019)$\times10^{0}$	(1.228 0.044 0.020)$\times10^{-1}$	(6.235 0.240 0.043)$\times10^{-2}$
4.54 – 5.00	(1.622 0.014 0.016)$\times10^{0}$	(9.843 0.350 0.170)$\times10^{-2}$	(6.018 0.230 0.038)$\times10^{-2}$
5.00 – 5.49	(1.284 0.011 0.013)$\times10^{0}$	(8.132 0.290 0.140)$\times10^{-2}$	(6.407 0.250 0.036)$\times10^{-2}$
5.49 – 6.00	(1.020 0.009 0.011)$\times10^{0}$	(5.752 0.230 0.100)$\times10^{-2}$	(5.439 0.230 0.027)$\times10^{-2}$
6.00 – 6.54	(8.159 0.074 0.089)$\times10^{-1}$	(4.481 0.180 0.082)$\times10^{-2}$	(5.519 0.240 0.024)$\times10^{-2}$
6.54 – 7.10	(6.500 0.062 0.073)$\times10^{-1}$	(3.812 0.160 0.071)$\times10^{-2}$	(5.947 0.260 0.023)$\times10^{-2}$
7.10 – 7.69	(5.164 0.052 0.060)$\times10^{-1}$	(2.824 0.130 0.054)$\times10^{-2}$	(5.618 0.270 0.020)$\times10^{-2}$
7.69 – 8.30	(4.174 0.044 0.050)$\times10^{-1}$	(2.265 0.110 0.044)$\times10^{-2}$	(5.504 0.280 0.019)$\times10^{-2}$
8.30 – 8.95	(3.313 0.037 0.040)$\times10^{-1}$	(1.926 0.094 0.039)$\times10^{-2}$	(5.688 0.300 0.019)$\times10^{-2}$
8.95 – 9.62	(2.655 0.032 0.033)$\times10^{-1}$	(1.511 0.079 0.031)$\times10^{-2}$	(5.675 0.320 0.019)$\times10^{-2}$
9.62 – 10.32	(2.161 0.027 0.027)$\times10^{-1}$	(1.265 0.069 0.027)$\times10^{-2}$	(5.714 0.340 0.019)$\times10^{-2}$
10.32 – 11.04	(1.749 0.024 0.022)$\times10^{-1}$	(9.439 0.570 0.200)$\times10^{-3}$	(5.495 0.360 0.018)$\times10^{-2}$
11.04 – 11.80	(1.437 0.020 0.019)$\times10^{-1}$	(9.179 0.540 0.200)$\times10^{-3}$	(6.295 0.410 0.020)$\times10^{-2}$
11.80 – 12.59	(1.208 0.018 0.016)$\times10^{-1}$	(6.804 0.450 0.150)$\times10^{-3}$	(5.522 0.400 0.018)$\times10^{-2}$
12.59 – 13.41	(9.345 0.150 0.130)$\times10^{-2}$	(5.295 0.380 0.120)$\times10^{-3}$	(5.372 0.430 0.017)$\times10^{-2}$
13.41 – 14.25	(7.823 0.140 0.110)$\times10^{-2}$	(4.780 0.350 0.110)$\times10^{-3}$	(5.831 0.480 0.019)$\times10^{-2}$
14.25 – 15.14	(6.389 0.120 0.088)$\times10^{-2}$	(4.265 0.310 0.100)$\times10^{-3}$	(6.880 0.550 0.022)$\times10^{-2}$
15.14 – 16.05	(5.268 0.100 0.074)$\times10^{-2}$	(3.343 0.270 0.081)$\times10^{-3}$	(6.327 0.570 0.021)$\times10^{-2}$
16.05 – 17.00	(4.259 0.090 0.060)$\times10^{-2}$	(2.782 0.240 0.068)$\times10^{-3}$	(6.409 0.600 0.021)$\times10^{-2}$
17.00 – 17.98	(3.567 0.080 0.051)$\times10^{-2}$	(2.434 0.220 0.061)$\times10^{-3}$	(6.676 0.660 0.022)$\times10^{-2}$
17.98 – 18.99	(3.031 0.071 0.044)$\times10^{-2}$	(1.835 0.180 0.046)$\times10^{-3}$	(6.233 0.670 0.021)$\times10^{-2}$
18.99 – 20.04	(2.585 0.064 0.038)$\times10^{-2}$	(1.460 0.160 0.037)$\times10^{-3}$	(5.708 0.670 0.019)$\times10^{-2}$
20.04 – 21.13	(2.111 0.055 0.031)$\times10^{-2}$	(1.597 0.160 0.041)$\times10^{-3}$	(7.578 0.830 0.026)$\times10^{-2}$
21.13 – 22.25	(1.825 0.050 0.027)$\times10^{-2}$	(1.090 0.130 0.028)$\times10^{-3}$	(5.963 0.770 0.020)$\times10^{-2}$
22.25 – 23.42	(1.494 0.043 0.022)$\times10^{-2}$	(9.356 1.100 0.240)$\times10^{-4}$	(6.339 0.830 0.022)$\times10^{-2}$
23.42 – 24.62	(1.260 0.038 0.019)$\times10^{-2}$	(8.381 1.000 0.210)$\times10^{-4}$	(6.676 0.910 0.023)$\times10^{-2}$
24.62 – 25.90	(1.078 0.034 0.016)$\times10^{-2}$	(9.163 1.000 0.240)$\times10^{-4}$	(7.354 0.970 0.025)$\times10^{-2}$

Continued on next page

TABLE SM XLVI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(8.877\ 0.300\ 0.140)\times10^{-3}$	$(7.196\ 0.870\ 0.180)\times10^{-4}$	$(7.479\ 1.100\ 0.026)\times10^{-2}$
27.25 – 28.68	$(7.903\ 0.270\ 0.120)\times10^{-3}$	$(5.555\ 0.720\ 0.140)\times10^{-4}$	$(7.137\ 1.000\ 0.025)\times10^{-2}$
28.68 – 30.21	$(6.885\ 0.240\ 0.110)\times10^{-3}$	$(5.843\ 0.710\ 0.150)\times10^{-4}$	$(8.913\ 1.200\ 0.031)\times10^{-2}$
30.21 – 31.82	$(5.698\ 0.210\ 0.090)\times10^{-3}$	$(4.327\ 0.600\ 0.110)\times10^{-4}$	$(7.829\ 1.200\ 0.027)\times10^{-2}$
31.82 – 33.53	$(4.710\ 0.180\ 0.075)\times10^{-3}$	$(3.604\ 0.520\ 0.093)\times10^{-4}$	$(7.805\ 1.300\ 0.028)\times10^{-2}$
33.53 – 35.36	$(3.694\ 0.160\ 0.060)\times10^{-3}$	$(2.088\ 0.380\ 0.054)\times10^{-4}$	$(6.890\ 1.300\ 0.025)\times10^{-2}$
35.36 – 37.31	$(3.225\ 0.140\ 0.053)\times10^{-3}$	$(3.005\ 0.450\ 0.077)\times10^{-4}$	$(9.857\ 1.600\ 0.036)\times10^{-2}$
37.31 – 39.39	$(2.805\ 0.130\ 0.046)\times10^{-3}$	$(3.030\ 0.440\ 0.078)\times10^{-4}$	$(11.51\ 1.800\ 0.043)\times10^{-2}$
39.39 – 41.61	$(2.176\ 0.110\ 0.036)\times10^{-3}$	$(2.682\ 0.400\ 0.069)\times10^{-4}$	$(13.25\ 2.200\ 0.051)\times10^{-2}$
41.61 – 44.00	$(1.851\ 0.098\ 0.031)\times10^{-3}$	$(1.391\ 0.280\ 0.036)\times10^{-4}$	$(6.876\ 1.600\ 0.027)\times10^{-2}$
44.00 – 46.57	$(1.637\ 0.089\ 0.028)\times10^{-3}$	$(1.023\ 0.230\ 0.026)\times10^{-4}$	$(6.370\ 1.600\ 0.026)\times10^{-2}$
46.57 – 49.33	$(1.336\ 0.078\ 0.023)\times10^{-3}$	$(1.403\ 0.270\ 0.036)\times10^{-4}$	$(11.22\ 2.300\ 0.047)\times10^{-2}$

TABLE SM XLVII: For Bartels Rotation 2471 (September 11, 2014 – October 07, 2014), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. Days from September 30 to October 07, 2014 are not included because AMS was performing detector studies in that interval. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	$(1.039\ 0.025\ 0.018)\times10^{1}$	$(1.230\ 0.090\ 0.022)\times10^{0}$	$(11.45\ 0.920\ 0.130)\times10^{-2}$
1.22 – 1.46	$(9.572\ 0.190\ 0.140)\times10^{0}$	$(1.093\ 0.065\ 0.017)\times10^{0}$	$(11.53\ 0.740\ 0.130)\times10^{-2}$
1.46 – 1.72	$(8.801\ 0.130\ 0.110)\times10^{0}$	$(9.067\ 0.450\ 0.130)\times10^{-1}$	$(10.10\ 0.550\ 0.110)\times10^{-2}$
1.72 – 2.00	$(7.385\ 0.097\ 0.083)\times10^{0}$	$(6.545\ 0.300\ 0.088)\times10^{-1}$	$(8.792\ 0.440\ 0.090)\times10^{-2}$
2.00 – 2.31	$(6.305\ 0.073\ 0.063)\times10^{0}$	$(5.224\ 0.220\ 0.069)\times10^{-1}$	$(8.242\ 0.370\ 0.082)\times10^{-2}$
2.31 – 2.65	$(5.236\ 0.056\ 0.048)\times10^{0}$	$(4.317\ 0.170\ 0.058)\times10^{-1}$	$(8.149\ 0.340\ 0.078)\times10^{-2}$
2.65 – 3.00	$(4.262\ 0.045\ 0.038)\times10^{0}$	$(3.201\ 0.130\ 0.045)\times10^{-1}$	$(7.446\ 0.320\ 0.068)\times10^{-2}$
3.00 – 3.36	$(3.507\ 0.037\ 0.031)\times10^{0}$	$(2.591\ 0.100\ 0.038)\times10^{-1}$	$(7.416\ 0.320\ 0.064)\times10^{-2}$
3.36 – 3.73	$(2.854\ 0.030\ 0.025)\times10^{0}$	$(2.005\ 0.084\ 0.031)\times10^{-1}$	$(7.259\ 0.320\ 0.059)\times10^{-2}$
3.73 – 4.12	$(2.367\ 0.025\ 0.021)\times10^{0}$	$(1.607\ 0.068\ 0.025)\times10^{-1}$	$(6.724\ 0.310\ 0.051)\times10^{-2}$
4.12 – 4.54	$(1.904\ 0.020\ 0.018)\times10^{0}$	$(1.193\ 0.053\ 0.020)\times10^{-1}$	$(6.450\ 0.310\ 0.045)\times10^{-2}$
4.54 – 5.00	$(1.543\ 0.017\ 0.015)\times10^{0}$	$(9.638\ 0.430\ 0.160)\times10^{-2}$	$(6.439\ 0.310\ 0.041)\times10^{-2}$
5.00 – 5.49	$(1.231\ 0.013\ 0.012)\times10^{0}$	$(7.558\ 0.350\ 0.130)\times10^{-2}$	$(5.995\ 0.300\ 0.034)\times10^{-2}$
5.49 – 6.00	$(9.828\ 0.110\ 0.100)\times10^{-1}$	$(5.917\ 0.280\ 0.110)\times10^{-2}$	$(6.216\ 0.320\ 0.031)\times10^{-2}$
6.00 – 6.54	$(7.826\ 0.090\ 0.085)\times10^{-1}$	$(4.376\ 0.220\ 0.080)\times10^{-2}$	$(5.737\ 0.310\ 0.025)\times10^{-2}$
6.54 – 7.10	$(6.162\ 0.075\ 0.069)\times10^{-1}$	$(3.417\ 0.180\ 0.064)\times10^{-2}$	$(5.747\ 0.330\ 0.022)\times10^{-2}$
7.10 – 7.69	$(5.038\ 0.063\ 0.058)\times10^{-1}$	$(3.172\ 0.170\ 0.061)\times10^{-2}$	$(6.463\ 0.360\ 0.023)\times10^{-2}$
7.69 – 8.30	$(3.989\ 0.054\ 0.047)\times10^{-1}$	$(2.271\ 0.130\ 0.044)\times10^{-2}$	$(5.659\ 0.360\ 0.020)\times10^{-2}$
8.30 – 8.95	$(3.179\ 0.045\ 0.039)\times10^{-1}$	$(1.959\ 0.120\ 0.039)\times10^{-2}$	$(5.822\ 0.380\ 0.020)\times10^{-2}$
8.95 – 9.62	$(2.598\ 0.039\ 0.032)\times10^{-1}$	$(1.358\ 0.094\ 0.028)\times10^{-2}$	$(5.478\ 0.400\ 0.018)\times10^{-2}$
9.62 – 10.32	$(2.100\ 0.033\ 0.026)\times10^{-1}$	$(1.119\ 0.081\ 0.024)\times10^{-2}$	$(5.159\ 0.410\ 0.017)\times10^{-2}$
10.32 – 11.04	$(1.678\ 0.029\ 0.022)\times10^{-1}$	$(9.449\ 0.710\ 0.200)\times10^{-3}$	$(5.573\ 0.460\ 0.018)\times10^{-2}$
11.04 – 11.80	$(1.319\ 0.024\ 0.017)\times10^{-1}$	$(7.934\ 0.620\ 0.180)\times10^{-3}$	$(6.281\ 0.530\ 0.020)\times10^{-2}$
11.80 – 12.59	$(1.099\ 0.021\ 0.015)\times10^{-1}$	$(7.138\ 0.560\ 0.160)\times10^{-3}$	$(6.809\ 0.580\ 0.022)\times10^{-2}$
12.59 – 13.41	$(9.092\ 0.190\ 0.120)\times10^{-2}$	$(4.972\ 0.450\ 0.120)\times10^{-3}$	$(5.142\ 0.520\ 0.016)\times10^{-2}$
13.41 – 14.25	$(7.300\ 0.160\ 0.099)\times10^{-2}$	$(5.102\ 0.450\ 0.120)\times10^{-3}$	$(6.565\ 0.650\ 0.021)\times10^{-2}$
14.25 – 15.14	$(6.054\ 0.140\ 0.084)\times10^{-2}$	$(3.618\ 0.360\ 0.087)\times10^{-3}$	$(5.589\ 0.630\ 0.018)\times10^{-2}$
15.14 – 16.05	$(5.008\ 0.130\ 0.070)\times10^{-2}$	$(3.505\ 0.350\ 0.085)\times10^{-3}$	$(6.762\ 0.750\ 0.022)\times10^{-2}$
16.05 – 17.00	$(4.026\ 0.110\ 0.057)\times10^{-2}$	$(2.780\ 0.290\ 0.068)\times10^{-3}$	$(7.334\ 0.830\ 0.024)\times10^{-2}$
17.00 – 17.98	$(3.493\ 0.098\ 0.050)\times10^{-2}$	$(2.544\ 0.270\ 0.063)\times10^{-3}$	$(7.570\ 0.890\ 0.025)\times10^{-2}$
17.98 – 18.99	$(2.844\ 0.086\ 0.041)\times10^{-2}$	$(1.846\ 0.230\ 0.046)\times10^{-3}$	$(6.610\ 0.890\ 0.022)\times10^{-2}$
18.99 – 20.04	$(2.557\ 0.078\ 0.037)\times10^{-2}$	$(1.643\ 0.210\ 0.042)\times10^{-3}$	$(6.992\ 0.930\ 0.023)\times10^{-2}$
20.04 – 21.13	$(2.148\ 0.069\ 0.032)\times10^{-2}$	$(1.712\ 0.200\ 0.043)\times10^{-3}$	$(8.561\ 1.100\ 0.029)\times10^{-2}$
21.13 – 22.25	$(1.697\ 0.060\ 0.025)\times10^{-2}$	$(1.296\ 0.170\ 0.033)\times10^{-3}$	$(8.285\ 1.200\ 0.028)\times10^{-2}$
22.25 – 23.42	$(1.467\ 0.053\ 0.022)\times10^{-2}$	$(9.248\ 1.400\ 0.240)\times10^{-4}$	$(6.150\ 1.000\ 0.021)\times10^{-2}$
23.42 – 24.62	$(1.272\ 0.048\ 0.019)\times10^{-2}$	$(8.092\ 1.300\ 0.210)\times10^{-4}$	$(6.505\ 1.100\ 0.022)\times10^{-2}$

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TABLE SM XLVII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
24.62 – 25.90	$(1.110\ 0.043\ 0.017)\times10^{-2}$	$(8.841\ 1.300\ 0.230)\times10^{-4}$	$(7.729\ 1.200\ 0.026)\times10^{-2}$
25.90 – 27.25	$(9.012\ 0.370\ 0.140)\times10^{-3}$	$(7.052\ 1.100\ 0.180)\times10^{-4}$	$(8.112\ 1.300\ 0.028)\times10^{-2}$
27.25 – 28.68	$(7.441\ 0.320\ 0.120)\times10^{-3}$	$(5.953\ 0.940\ 0.150)\times10^{-4}$	$(7.905\ 1.400\ 0.027)\times10^{-2}$
28.68 – 30.21	$(6.274\ 0.280\ 0.098)\times10^{-3}$	$(3.058\ 0.670\ 0.079)\times10^{-4}$	$(4.020\ 1.000\ 0.014)\times10^{-2}$
30.21 – 31.82	$(5.684\ 0.260\ 0.090)\times10^{-3}$	$(4.172\ 0.730\ 0.110)\times10^{-4}$	$(8.278\ 1.500\ 0.029)\times10^{-2}$
31.82 – 33.53	$(4.987\ 0.230\ 0.080)\times10^{-3}$	$(4.389\ 0.730\ 0.110)\times10^{-4}$	$(8.103\ 1.600\ 0.029)\times10^{-2}$
33.53 – 35.36	$(3.772\ 0.200\ 0.061)\times10^{-3}$	$(3.109\ 0.590\ 0.080)\times10^{-4}$	$(8.389\ 1.800\ 0.030)\times10^{-2}$
35.36 – 37.31	$(3.356\ 0.180\ 0.055)\times10^{-3}$	$(4.137\ 0.650\ 0.110)\times10^{-4}$	$(12.04\ 2.200\ 0.044)\times10^{-2}$
37.31 – 39.39	$(2.852\ 0.160\ 0.047)\times10^{-3}$	$(2.277\ 0.470\ 0.058)\times10^{-4}$	$(7.861\ 1.800\ 0.029)\times10^{-2}$
39.39 – 41.61	$(2.523\ 0.150\ 0.042)\times10^{-3}$	$(2.456\ 0.480\ 0.063)\times10^{-4}$	$(10.52\ 2.200\ 0.040)\times10^{-2}$
41.61 – 44.00	$(1.991\ 0.130\ 0.034)\times10^{-3}$	$(1.899\ 0.400\ 0.049)\times10^{-4}$	$(8.119\ 2.100\ 0.032)\times10^{-2}$
44.00 – 46.57	$(1.677\ 0.110\ 0.029)\times10^{-3}$	$(1.852\ 0.380\ 0.048)\times10^{-4}$	$(10.88\ 2.500\ 0.044)\times10^{-2}$
46.57 – 49.33	$(1.532\ 0.100\ 0.027)\times10^{-3}$	$(1.241\ 0.310\ 0.032)\times10^{-4}$	$(6.914\ 2.000\ 0.029)\times10^{-2}$

TABLE SM XLVIII: For Bartels Rotation 2474 (December 01, 2014 – December 27, 2014), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.152 0.021 0.020)$\times10^{1}$	(1.474 0.079 0.026)$\times10^{0}$	(12.84 0.750 0.150)$\times10^{-2}$
1.22 – 1.46	(1.026 0.015 0.015)$\times10^{1}$	(1.278 0.056 0.020)$\times10^{0}$	(12.34 0.600 0.140)$\times10^{-2}$
1.46 – 1.72	(9.049 0.110 0.120)$\times10^{0}$	(1.001 0.038 0.014)$\times10^{0}$	(11.22 0.460 0.120)$\times10^{-2}$
1.72 – 2.00	(7.474 0.079 0.084)$\times10^{0}$	(7.599 0.260 0.100)$\times10^{-1}$	(10.25 0.380 0.110)$\times10^{-2}$
2.00 – 2.31	(6.309 0.059 0.063)$\times10^{0}$	(5.479 0.180 0.073)$\times10^{-1}$	(8.784 0.310 0.087)$\times10^{-2}$
2.31 – 2.65	(5.210 0.045 0.048)$\times10^{0}$	(4.427 0.130 0.059)$\times10^{-1}$	(8.778 0.290 0.084)$\times10^{-2}$
2.65 – 3.00	(4.320 0.036 0.038)$\times10^{0}$	(3.051 0.100 0.043)$\times10^{-1}$	(7.074 0.250 0.064)$\times10^{-2}$
3.00 – 3.36	(3.513 0.030 0.031)$\times10^{0}$	(2.513 0.082 0.037)$\times10^{-1}$	(7.268 0.260 0.063)$\times10^{-2}$
3.36 – 3.73	(2.840 0.024 0.025)$\times10^{0}$	(1.823 0.064 0.028)$\times10^{-1}$	(6.477 0.240 0.052)$\times10^{-2}$
3.73 – 4.12	(2.286 0.020 0.021)$\times10^{0}$	(1.466 0.053 0.023)$\times10^{-1}$	(6.685 0.250 0.050)$\times10^{-2}$
4.12 – 4.54	(1.867 0.016 0.017)$\times10^{0}$	(1.316 0.045 0.022)$\times10^{-1}$	(7.139 0.260 0.050)$\times10^{-2}$
4.54 – 5.00	(1.500 0.013 0.014)$\times10^{0}$	(8.994 0.340 0.150)$\times10^{-2}$	(6.027 0.240 0.038)$\times10^{-2}$
5.00 – 5.49	(1.192 0.011 0.012)$\times10^{0}$	(6.797 0.270 0.120)$\times10^{-2}$	(5.664 0.240 0.032)$\times10^{-2}$
5.49 – 6.00	(9.434 0.087 0.098)$\times10^{-1}$	(6.110 0.230 0.110)$\times10^{-2}$	(6.605 0.270 0.033)$\times10^{-2}$
6.00 – 6.54	(7.710 0.072 0.084)$\times10^{-1}$	(4.507 0.180 0.082)$\times10^{-2}$	(5.965 0.260 0.026)$\times10^{-2}$
6.54 – 7.10	(6.096 0.060 0.069)$\times10^{-1}$	(3.493 0.150 0.065)$\times10^{-2}$	(5.456 0.260 0.021)$\times10^{-2}$
7.10 – 7.69	(4.767 0.050 0.055)$\times10^{-1}$	(2.803 0.130 0.054)$\times10^{-2}$	(5.809 0.280 0.021)$\times10^{-2}$
7.69 – 8.30	(3.835 0.042 0.046)$\times10^{-1}$	(2.247 0.110 0.044)$\times10^{-2}$	(6.041 0.310 0.021)$\times10^{-2}$
8.30 – 8.95	(3.052 0.035 0.037)$\times10^{-1}$	(1.520 0.083 0.031)$\times10^{-2}$	(5.055 0.290 0.017)$\times10^{-2}$
8.95 – 9.62	(2.438 0.030 0.030)$\times10^{-1}$	(1.333 0.075 0.027)$\times10^{-2}$	(5.597 0.330 0.019)$\times10^{-2}$
9.62 – 10.32	(2.006 0.026 0.025)$\times10^{-1}$	(1.169 0.067 0.025)$\times10^{-2}$	(5.530 0.350 0.018)$\times10^{-2}$
10.32 – 11.04	(1.646 0.023 0.021)$\times10^{-1}$	(9.391 0.570 0.200)$\times10^{-3}$	(5.968 0.390 0.019)$\times10^{-2}$
11.04 – 11.80	(1.372 0.020 0.018)$\times10^{-1}$	(7.243 0.480 0.160)$\times10^{-3}$	(5.427 0.390 0.017)$\times10^{-2}$
11.80 – 12.59	(1.078 0.017 0.014)$\times10^{-1}$	(6.611 0.440 0.150)$\times10^{-3}$	(5.756 0.430 0.018)$\times10^{-2}$
12.59 – 13.41	(8.836 0.150 0.120)$\times10^{-2}$	(5.550 0.390 0.130)$\times10^{-3}$	(6.163 0.470 0.020)$\times10^{-2}$
13.41 – 14.25	(7.439 0.130 0.100)$\times10^{-2}$	(4.765 0.350 0.110)$\times10^{-3}$	(6.915 0.540 0.022)$\times10^{-2}$
14.25 – 15.14	(5.995 0.110 0.083)$\times10^{-2}$	(3.129 0.270 0.075)$\times10^{-3}$	(5.302 0.500 0.017)$\times10^{-2}$
15.14 – 16.05	(5.010 0.100 0.070)$\times10^{-2}$	(2.951 0.250 0.072)$\times10^{-3}$	(5.798 0.550 0.019)$\times10^{-2}$
16.05 – 17.00	(4.061 0.088 0.057)$\times10^{-2}$	(2.821 0.240 0.069)$\times10^{-3}$	(6.856 0.640 0.022)$\times10^{-2}$
17.00 – 17.98	(3.584 0.080 0.051)$\times10^{-2}$	(2.338 0.210 0.058)$\times10^{-3}$	(6.731 0.660 0.022)$\times10^{-2}$
17.98 – 18.99	(2.899 0.070 0.042)$\times10^{-2}$	(1.897 0.190 0.048)$\times10^{-3}$	(6.384 0.700 0.021)$\times10^{-2}$
18.99 – 20.04	(2.503 0.062 0.037)$\times10^{-2}$	(1.496 0.160 0.038)$\times10^{-3}$	(6.316 0.720 0.021)$\times10^{-2}$
20.04 – 21.13	(1.986 0.054 0.029)$\times10^{-2}$	(1.304 0.140 0.033)$\times10^{-3}$	(6.939 0.820 0.023)$\times10^{-2}$
21.13 – 22.25	(1.713 0.048 0.025)$\times10^{-2}$	(1.250 0.140 0.032)$\times10^{-3}$	(7.350 0.880 0.025)$\times10^{-2}$
22.25 – 23.42	(1.460 0.043 0.022)$\times10^{-2}$	(1.055 0.120 0.027)$\times10^{-3}$	(6.727 0.870 0.023)$\times10^{-2}$
23.42 – 24.62	(1.224 0.038 0.019)$\times10^{-2}$	(7.109 0.950 0.180)$\times10^{-4}$	(6.131 0.890 0.021)$\times10^{-2}$
24.62 – 25.90	(1.111 0.034 0.017)$\times10^{-2}$	(7.448 0.920 0.190)$\times10^{-4}$	(7.372 0.970 0.025)$\times10^{-2}$

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TABLE SM XLVIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.319\ 0.300\ 0.140)\times10^{-3}$	$(7.316\ 0.870\ 0.190)\times10^{-4}$	$(8.507\ 1.100\ 0.029)\times10^{-2}$
27.25 – 28.68	$(7.565\ 0.260\ 0.120)\times10^{-3}$	$(6.615\ 0.800\ 0.170)\times10^{-4}$	$(8.709\ 1.200\ 0.030)\times10^{-2}$
28.68 – 30.21	$(6.968\ 0.240\ 0.110)\times10^{-3}$	$(4.896\ 0.670\ 0.130)\times10^{-4}$	$(6.614\ 1.000\ 0.023)\times10^{-2}$
30.21 – 31.82	$(5.277\ 0.200\ 0.084)\times10^{-3}$	$(3.428\ 0.540\ 0.088)\times10^{-4}$	$(7.005\ 1.200\ 0.025)\times10^{-2}$
31.82 – 33.53	$(4.483\ 0.180\ 0.072)\times10^{-3}$	$(3.004\ 0.490\ 0.077)\times10^{-4}$	$(6.952\ 1.200\ 0.025)\times10^{-2}$
33.53 – 35.36	$(4.058\ 0.160\ 0.066)\times10^{-3}$	$(3.298\ 0.490\ 0.085)\times10^{-4}$	$(8.340\ 1.400\ 0.030)\times10^{-2}$
35.36 – 37.31	$(3.120\ 0.140\ 0.051)\times10^{-3}$	$(2.730\ 0.430\ 0.070)\times10^{-4}$	$(9.039\ 1.600\ 0.033)\times10^{-2}$
37.31 – 39.39	$(2.615\ 0.120\ 0.043)\times10^{-3}$	$(2.542\ 0.400\ 0.065)\times10^{-4}$	$(9.170\ 1.600\ 0.034)\times10^{-2}$
39.39 – 41.61	$(2.351\ 0.110\ 0.039)\times10^{-3}$	$(1.979\ 0.340\ 0.051)\times10^{-4}$	$(7.630\ 1.500\ 0.029)\times10^{-2}$
41.61 – 44.00	$(1.908\ 0.099\ 0.032)\times10^{-3}$	$(1.437\ 0.280\ 0.037)\times10^{-4}$	$(6.960\ 1.600\ 0.027)\times10^{-2}$
44.00 – 46.57	$(1.573\ 0.087\ 0.027)\times10^{-3}$	$(1.452\ 0.280\ 0.037)\times10^{-4}$	$(9.382\ 2.000\ 0.038)\times10^{-2}$
46.57 – 49.33	$(1.398\ 0.080\ 0.024)\times10^{-3}$	$(1.648\ 0.280\ 0.042)\times10^{-4}$	$(10.78\ 2.200\ 0.045)\times10^{-2}$

TABLE SM XLIX: For Bartels Rotation 2475 (December 28, 2014 – January 23, 2015), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.071 0.021 0.018)$\times10^{1}$	(1.385 0.077 0.025)$\times10^{0}$	(12.65 0.780 0.140)$\times10^{-2}$
1.22 – 1.46	(9.764 0.150 0.140)$\times10^{0}$	(1.225 0.056 0.019)$\times10^{0}$	(12.72 0.640 0.140)$\times10^{-2}$
1.46 – 1.72	(8.565 0.110 0.110)$\times10^{0}$	(9.707 0.380 0.140)$\times10^{-1}$	(11.08 0.480 0.120)$\times10^{-2}$
1.72 – 2.00	(7.201 0.078 0.081)$\times10^{0}$	(7.084 0.250 0.095)$\times10^{-1}$	(9.937 0.390 0.100)$\times10^{-2}$
2.00 – 2.31	(6.155 0.059 0.062)$\times10^{0}$	(5.539 0.180 0.073)$\times10^{-1}$	(9.132 0.330 0.091)$\times10^{-2}$
2.31 – 2.65	(5.026 0.045 0.046)$\times10^{0}$	(4.390 0.140 0.059)$\times10^{-1}$	(8.695 0.300 0.083)$\times10^{-2}$
2.65 – 3.00	(4.103 0.036 0.036)$\times10^{0}$	(3.306 0.100 0.046)$\times10^{-1}$	(8.038 0.280 0.073)$\times10^{-2}$
3.00 – 3.36	(3.385 0.029 0.030)$\times10^{0}$	(2.471 0.083 0.036)$\times10^{-1}$	(7.320 0.260 0.063)$\times10^{-2}$
3.36 – 3.73	(2.770 0.024 0.025)$\times10^{0}$	(1.960 0.067 0.030)$\times10^{-1}$	(7.324 0.270 0.059)$\times10^{-2}$
3.73 – 4.12	(2.284 0.020 0.021)$\times10^{0}$	(1.547 0.054 0.025)$\times10^{-1}$	(6.968 0.260 0.052)$\times10^{-2}$
4.12 – 4.54	(1.823 0.016 0.017)$\times10^{0}$	(1.163 0.043 0.019)$\times10^{-1}$	(6.541 0.260 0.045)$\times10^{-2}$
4.54 – 5.00	(1.486 0.013 0.014)$\times10^{0}$	(9.543 0.350 0.160)$\times10^{-2}$	(6.417 0.250 0.041)$\times10^{-2}$
5.00 – 5.49	(1.180 0.011 0.012)$\times10^{0}$	(7.177 0.270 0.120)$\times10^{-2}$	(6.319 0.260 0.036)$\times10^{-2}$
5.49 – 6.00	(9.258 0.087 0.097)$\times10^{-1}$	(5.177 0.210 0.092)$\times10^{-2}$	(5.477 0.250 0.028)$\times10^{-2}$
6.00 – 6.54	(7.484 0.071 0.081)$\times10^{-1}$	(4.788 0.190 0.087)$\times10^{-2}$	(6.463 0.270 0.029)$\times10^{-2}$
6.54 – 7.10	(6.027 0.060 0.068)$\times10^{-1}$	(3.485 0.150 0.065)$\times10^{-2}$	(5.635 0.260 0.022)$\times10^{-2}$
7.10 – 7.69	(4.733 0.049 0.055)$\times10^{-1}$	(2.697 0.120 0.051)$\times10^{-2}$	(5.880 0.290 0.021)$\times10^{-2}$
7.69 – 8.30	(3.892 0.043 0.046)$\times10^{-1}$	(2.270 0.110 0.044)$\times10^{-2}$	(5.713 0.300 0.020)$\times10^{-2}$
8.30 – 8.95	(2.995 0.035 0.036)$\times10^{-1}$	(1.757 0.090 0.035)$\times10^{-2}$	(6.137 0.330 0.021)$\times10^{-2}$
8.95 – 9.62	(2.468 0.031 0.030)$\times10^{-1}$	(1.401 0.077 0.029)$\times10^{-2}$	(5.522 0.330 0.018)$\times10^{-2}$
9.62 – 10.32	(1.987 0.026 0.025)$\times10^{-1}$	(1.319 0.071 0.028)$\times10^{-2}$	(6.770 0.390 0.022)$\times10^{-2}$
10.32 – 11.04	(1.669 0.023 0.021)$\times10^{-1}$	(8.934 0.550 0.190)$\times10^{-3}$	(5.648 0.370 0.018)$\times10^{-2}$
11.04 – 11.80	(1.312 0.020 0.017)$\times10^{-1}$	(7.599 0.490 0.170)$\times10^{-3}$	(5.859 0.410 0.019)$\times10^{-2}$
11.80 – 12.59	(1.085 0.017 0.014)$\times10^{-1}$	(6.179 0.420 0.140)$\times10^{-3}$	(5.492 0.420 0.018)$\times10^{-2}$
12.59 – 13.41	(8.809 0.150 0.120)$\times10^{-2}$	(5.531 0.390 0.130)$\times10^{-3}$	(6.364 0.480 0.020)$\times10^{-2}$
13.41 – 14.25	(7.347 0.130 0.100)$\times10^{-2}$	(4.418 0.330 0.100)$\times10^{-3}$	(6.163 0.510 0.020)$\times10^{-2}$
14.25 – 15.14	(5.904 0.110 0.082)$\times10^{-2}$	(3.884 0.300 0.093)$\times10^{-3}$	(6.771 0.570 0.022)$\times10^{-2}$
15.14 – 16.05	(5.140 0.100 0.072)$\times10^{-2}$	(3.078 0.260 0.075)$\times10^{-3}$	(5.646 0.540 0.018)$\times10^{-2}$
16.05 – 17.00	(4.021 0.087 0.057)$\times10^{-2}$	(2.467 0.220 0.061)$\times10^{-3}$	(5.959 0.600 0.020)$\times10^{-2}$
17.00 – 17.98	(3.427 0.078 0.049)$\times10^{-2}$	(2.484 0.220 0.062)$\times10^{-3}$	(7.633 0.730 0.025)$\times10^{-2}$
17.98 – 18.99	(2.746 0.068 0.040)$\times10^{-2}$	(1.552 0.170 0.039)$\times10^{-3}$	(5.999 0.680 0.020)$\times10^{-2}$
18.99 – 20.04	(2.459 0.062 0.036)$\times10^{-2}$	(1.669 0.170 0.042)$\times10^{-3}$	(6.987 0.760 0.023)$\times10^{-2}$
20.04 – 21.13	(2.179 0.056 0.032)$\times10^{-2}$	(1.478 0.150 0.038)$\times10^{-3}$	(6.709 0.760 0.023)$\times10^{-2}$
21.13 – 22.25	(1.776 0.049 0.026)$\times10^{-2}$	(1.070 0.130 0.027)$\times10^{-3}$	(6.019 0.790 0.020)$\times10^{-2}$
22.25 – 23.42	(1.446 0.043 0.022)$\times10^{-2}$	(1.136 0.120 0.029)$\times10^{-3}$	(7.352 0.930 0.025)$\times10^{-2}$
23.42 – 24.62	(1.284 0.039 0.019)$\times10^{-2}$	(9.400 1.100 0.240)$\times10^{-4}$	(7.588 0.960 0.026)$\times10^{-2}$
24.62 – 25.90	(1.087 0.034 0.017)$\times10^{-2}$	(7.770 0.950 0.200)$\times10^{-4}$	(7.179 0.970 0.025)$\times10^{-2}$

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TABLE SM XLIX – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.108\ 0.300\ 0.140)\times10^{-3}$	$(4.829\ 0.710\ 0.120)\times10^{-4}$	$(5.397\ 0.880\ 0.019)\times10^{-2}$
27.25 – 28.68	$(7.516\ 0.260\ 0.120)\times10^{-3}$	$(5.406\ 0.730\ 0.140)\times10^{-4}$	$(7.191\ 1.100\ 0.025)\times10^{-2}$
28.68 – 30.21	$(6.443\ 0.230\ 0.100)\times10^{-3}$	$(5.660\ 0.710\ 0.150)\times10^{-4}$	$(8.992\ 1.300\ 0.031)\times10^{-2}$
30.21 – 31.82	$(5.537\ 0.210\ 0.088)\times10^{-3}$	$(3.000\ 0.510\ 0.077)\times10^{-4}$	$(5.678\ 1.000\ 0.020)\times10^{-2}$
31.82 – 33.53	$(5.001\ 0.190\ 0.080)\times10^{-3}$	$(3.077\ 0.490\ 0.079)\times10^{-4}$	$(5.680\ 1.100\ 0.020)\times10^{-2}$
33.53 – 35.36	$(3.929\ 0.160\ 0.064)\times10^{-3}$	$(3.579\ 0.510\ 0.092)\times10^{-4}$	$(9.697\ 1.500\ 0.035)\times10^{-2}$
35.36 – 37.31	$(3.370\ 0.140\ 0.055)\times10^{-3}$	$(1.916\ 0.360\ 0.049)\times10^{-4}$	$(5.815\ 1.200\ 0.021)\times10^{-2}$
37.31 – 39.39	$(3.054\ 0.130\ 0.051)\times10^{-3}$	$(2.218\ 0.370\ 0.057)\times10^{-4}$	$(8.228\ 1.500\ 0.031)\times10^{-2}$
39.39 – 41.61	$(2.315\ 0.110\ 0.039)\times10^{-3}$	$(1.595\ 0.310\ 0.041)\times10^{-4}$	$(7.357\ 1.500\ 0.028)\times10^{-2}$
41.61 – 44.00	$(2.040\ 0.100\ 0.034)\times10^{-3}$	$(1.304\ 0.270\ 0.033)\times10^{-4}$	$(5.955\ 1.400\ 0.023)\times10^{-2}$
44.00 – 46.57	$(1.499\ 0.085\ 0.026)\times10^{-3}$	$(1.443\ 0.280\ 0.037)\times10^{-4}$	$(9.231\ 2.100\ 0.037)\times10^{-2}$
46.57 – 49.33	$(1.469\ 0.081\ 0.025)\times10^{-3}$	$(1.305\ 0.250\ 0.034)\times10^{-4}$	$(8.783\ 1.900\ 0.037)\times10^{-2}$

TABLE SM L: For Bartels Rotation 2476 (January 24, 2015 – February 19, 2015), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.054 0.020 0.018)×10^{1}	(1.376 0.075 0.025)×10^{0}	(12.81 0.780 0.140)×10^{-2}
1.22 – 1.46	(9.587 0.150 0.140)×10^{0}	(1.229 0.055 0.019)×10^{0}	(12.73 0.630 0.140)×10^{-2}
1.46 – 1.72	(8.551 0.110 0.110)×10^{0}	(9.107 0.360 0.130)×10^{-1}	(10.85 0.460 0.120)×10^{-2}
1.72 – 2.00	(7.082 0.076 0.080)×10^{0}	(7.306 0.250 0.098)×10^{-1}	(10.41 0.390 0.110)×10^{-2}
2.00 – 2.31	(5.989 0.057 0.060)×10^{0}	(5.682 0.180 0.075)×10^{-1}	(9.272 0.330 0.092)×10^{-2}
2.31 – 2.65	(4.948 0.044 0.045)×10^{0}	(4.228 0.130 0.057)×10^{-1}	(8.704 0.290 0.083)×10^{-2}
2.65 – 3.00	(4.055 0.035 0.036)×10^{0}	(3.273 0.100 0.046)×10^{-1}	(8.074 0.280 0.074)×10^{-2}
3.00 – 3.36	(3.376 0.029 0.030)×10^{0}	(2.397 0.080 0.035)×10^{-1}	(7.040 0.260 0.061)×10^{-2}
3.36 – 3.73	(2.754 0.024 0.025)×10^{0}	(1.973 0.066 0.030)×10^{-1}	(7.033 0.260 0.057)×10^{-2}
3.73 – 4.12	(2.166 0.019 0.020)×10^{0}	(1.430 0.052 0.023)×10^{-1}	(6.572 0.260 0.049)×10^{-2}
4.12 – 4.54	(1.782 0.016 0.017)×10^{0}	(1.199 0.043 0.020)×10^{-1}	(6.741 0.260 0.047)×10^{-2}
4.54 – 5.00	(1.455 0.013 0.014)×10^{0}	(9.900 0.350 0.170)×10^{-2}	(6.946 0.260 0.044)×10^{-2}
5.00 – 5.49	(1.156 0.010 0.012)×10^{0}	(7.690 0.280 0.130)×10^{-2}	(6.925 0.270 0.039)×10^{-2}
5.49 – 6.00	(9.415 0.087 0.098)×10^{-1}	(5.823 0.230 0.100)×10^{-2}	(6.445 0.270 0.032)×10^{-2}
6.00 – 6.54	(7.390 0.070 0.080)×10^{-1}	(4.392 0.180 0.080)×10^{-2}	(6.170 0.270 0.027)×10^{-2}
6.54 – 7.10	(5.923 0.059 0.067)×10^{-1}	(3.603 0.150 0.067)×10^{-2}	(6.416 0.290 0.025)×10^{-2}
7.10 – 7.69	(4.728 0.049 0.055)×10^{-1}	(2.726 0.120 0.052)×10^{-2}	(5.781 0.280 0.021)×10^{-2}
7.69 – 8.30	(3.776 0.042 0.045)×10^{-1}	(2.258 0.110 0.044)×10^{-2}	(6.232 0.310 0.022)×10^{-2}
8.30 – 8.95	(3.099 0.036 0.038)×10^{-1}	(1.675 0.087 0.034)×10^{-2}	(5.522 0.310 0.019)×10^{-2}
8.95 – 9.62	(2.518 0.031 0.031)×10^{-1}	(1.509 0.079 0.031)×10^{-2}	(5.999 0.340 0.020)×10^{-2}
9.62 – 10.32	(1.982 0.026 0.025)×10^{-1}	(1.163 0.066 0.025)×10^{-2}	(6.047 0.370 0.020)×10^{-2}
10.32 – 11.04	(1.607 0.023 0.021)×10^{-1}	(9.066 0.560 0.200)×10^{-3}	(5.787 0.390 0.019)×10^{-2}
11.04 – 11.80	(1.344 0.020 0.018)×10^{-1}	(8.847 0.530 0.200)×10^{-3}	(6.389 0.420 0.021)×10^{-2}
11.80 – 12.59	(1.109 0.017 0.015)×10^{-1}	(6.288 0.430 0.140)×10^{-3}	(5.779 0.430 0.018)×10^{-2}
12.59 – 13.41	(8.779 0.150 0.120)×10^{-2}	(5.659 0.390 0.130)×10^{-3}	(6.710 0.500 0.021)×10^{-2}
13.41 – 14.25	(7.421 0.130 0.100)×10^{-2}	(4.393 0.330 0.100)×10^{-3}	(5.520 0.470 0.018)×10^{-2}
14.25 – 15.14	(5.837 0.110 0.081)×10^{-2}	(3.758 0.290 0.090)×10^{-3}	(6.005 0.530 0.019)×10^{-2}
15.14 – 16.05	(4.714 0.098 0.066)×10^{-2}	(3.084 0.260 0.075)×10^{-3}	(6.898 0.620 0.022)×10^{-2}
16.05 – 17.00	(4.165 0.088 0.059)×10^{-2}	(2.510 0.230 0.062)×10^{-3}	(5.868 0.590 0.019)×10^{-2}
17.00 – 17.98	(3.415 0.078 0.049)×10^{-2}	(1.879 0.190 0.047)×10^{-3}	(5.709 0.620 0.019)×10^{-2}
17.98 – 18.99	(2.881 0.069 0.042)×10^{-2}	(2.128 0.200 0.053)×10^{-3}	(7.693 0.770 0.026)×10^{-2}
18.99 – 20.04	(2.474 0.062 0.036)×10^{-2}	(1.501 0.160 0.038)×10^{-3}	(6.604 0.740 0.022)×10^{-2}
20.04 – 21.13	(2.075 0.055 0.031)×10^{-2}	(1.409 0.150 0.036)×10^{-3}	(6.438 0.780 0.022)×10^{-2}
21.13 – 22.25	(1.812 0.050 0.027)×10^{-2}	(1.049 0.120 0.027)×10^{-3}	(5.636 0.740 0.019)×10^{-2}
22.25 – 23.42	(1.488 0.043 0.022)×10^{-2}	(9.434 1.100 0.240)×10^{-4}	(5.719 0.800 0.019)×10^{-2}
23.42 – 24.62	(1.249 0.038 0.019)×10^{-2}	(6.443 0.910 0.170)×10^{-4}	(5.384 0.830 0.018)×10^{-2}
24.62 – 25.90	(1.126 0.035 0.017)×10^{-2}	(7.968 0.960 0.200)×10^{-4}	(7.711 0.980 0.026)×10^{-2}

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TABLE SM L – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.411 0.300 0.150)$\times10^{-3}$	(6.532 0.830 0.170)$\times10^{-4}$	(7.176 1.000 0.025)$\times10^{-2}$
27.25 – 28.68	(8.005 0.270 0.120)$\times10^{-3}$	(6.179 0.770 0.160)$\times10^{-4}$	(7.112 1.000 0.025)$\times10^{-2}$
28.68 – 30.21	(6.713 0.230 0.110)$\times10^{-3}$	(6.148 0.730 0.160)$\times10^{-4}$	(9.391 1.200 0.033)$\times10^{-2}$
30.21 – 31.82	(5.292 0.200 0.084)$\times10^{-3}$	(4.546 0.610 0.120)$\times10^{-4}$	(8.626 1.300 0.030)$\times10^{-2}$
31.82 – 33.53	(4.325 0.180 0.069)$\times10^{-3}$	(3.307 0.500 0.085)$\times10^{-4}$	(8.089 1.300 0.029)$\times10^{-2}$
33.53 – 35.36	(4.293 0.170 0.069)$\times10^{-3}$	(2.177 0.400 0.056)$\times10^{-4}$	(5.027 1.000 0.018)$\times10^{-2}$
35.36 – 37.31	(3.266 0.140 0.053)$\times10^{-3}$	(2.539 0.420 0.065)$\times10^{-4}$	(7.108 1.400 0.026)$\times10^{-2}$
37.31 – 39.39	(2.751 0.130 0.046)$\times10^{-3}$	(2.222 0.380 0.057)$\times10^{-4}$	(9.623 1.700 0.036)$\times10^{-2}$
39.39 – 41.61	(2.353 0.110 0.039)$\times10^{-3}$	(1.473 0.300 0.038)$\times10^{-4}$	(5.980 1.400 0.023)$\times10^{-2}$
41.61 – 44.00	(1.977 0.100 0.033)$\times10^{-3}$	(9.155 2.300 0.230)$\times10^{-5}$	(2.893 1.000 0.011)$\times10^{-2}$
44.00 – 46.57	(1.798 0.093 0.031)$\times10^{-3}$	(1.343 0.270 0.034)$\times10^{-4}$	(7.736 1.700 0.031)$\times10^{-2}$
46.57 – 49.33	(1.327 0.077 0.023)$\times10^{-3}$	(1.814 0.290 0.047)$\times10^{-4}$	(12.83 2.400 0.054)$\times10^{-2}$

TABLE SM LI: For Bartels Rotation 2477 (February 20, 2015 – March 18, 2015), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(9.734 0.200 0.170)$\times10^{0}$	(1.467 0.079 0.026)$\times10^{0}$	(14.89 0.890 0.170)$\times10^{-2}$
1.22 – 1.46	(8.935 0.150 0.130)$\times10^{0}$	(1.147 0.054 0.018)$\times10^{0}$	(12.83 0.660 0.140)$\times10^{-2}$
1.46 – 1.72	(7.874 0.100 0.100)$\times10^{0}$	(8.877 0.360 0.120)$\times10^{-1}$	(11.50 0.510 0.120)$\times10^{-2}$
1.72 – 2.00	(6.504 0.074 0.073)$\times10^{0}$	(6.928 0.250 0.093)$\times10^{-1}$	(10.61 0.420 0.110)$\times10^{-2}$
2.00 – 2.31	(5.465 0.055 0.055)$\times10^{0}$	(5.160 0.170 0.068)$\times10^{-1}$	(9.477 0.350 0.094)$\times10^{-2}$
2.31 – 2.65	(4.673 0.043 0.043)$\times10^{0}$	(3.946 0.130 0.053)$\times10^{-1}$	(8.484 0.300 0.081)$\times10^{-2}$
2.65 – 3.00	(3.860 0.035 0.034)$\times10^{0}$	(3.274 0.100 0.046)$\times10^{-1}$	(8.575 0.300 0.078)$\times10^{-2}$
3.00 – 3.36	(3.150 0.028 0.028)$\times10^{0}$	(2.475 0.082 0.036)$\times10^{-1}$	(7.899 0.280 0.068)$\times10^{-2}$
3.36 – 3.73	(2.576 0.023 0.023)$\times10^{0}$	(1.883 0.066 0.029)$\times10^{-1}$	(7.384 0.280 0.060)$\times10^{-2}$
3.73 – 4.12	(2.150 0.019 0.020)$\times10^{0}$	(1.445 0.053 0.023)$\times10^{-1}$	(6.759 0.270 0.051)$\times10^{-2}$
4.12 – 4.54	(1.739 0.016 0.016)$\times10^{0}$	(1.184 0.043 0.019)$\times10^{-1}$	(6.981 0.270 0.048)$\times10^{-2}$
4.54 – 5.00	(1.420 0.013 0.014)$\times10^{0}$	(9.475 0.350 0.160)$\times10^{-2}$	(6.762 0.270 0.043)$\times10^{-2}$
5.00 – 5.49	(1.126 0.010 0.011)$\times10^{0}$	(6.892 0.270 0.120)$\times10^{-2}$	(6.061 0.260 0.034)$\times10^{-2}$
5.49 – 6.00	(8.970 0.085 0.094)$\times10^{-1}$	(5.705 0.220 0.100)$\times10^{-2}$	(6.514 0.270 0.033)$\times10^{-2}$
6.00 – 6.54	(7.122 0.069 0.077)$\times10^{-1}$	(4.131 0.170 0.075)$\times10^{-2}$	(5.920 0.270 0.026)$\times10^{-2}$
6.54 – 7.10	(5.768 0.058 0.065)$\times10^{-1}$	(3.260 0.150 0.061)$\times10^{-2}$	(5.696 0.270 0.022)$\times10^{-2}$
7.10 – 7.69	(4.654 0.049 0.054)$\times10^{-1}$	(2.925 0.130 0.056)$\times10^{-2}$	(6.191 0.300 0.022)$\times10^{-2}$
7.69 – 8.30	(3.783 0.042 0.045)$\times10^{-1}$	(2.134 0.100 0.042)$\times10^{-2}$	(5.587 0.300 0.019)$\times10^{-2}$
8.30 – 8.95	(3.040 0.035 0.037)$\times10^{-1}$	(1.658 0.087 0.033)$\times10^{-2}$	(5.608 0.310 0.019)$\times10^{-2}$
8.95 – 9.62	(2.406 0.030 0.030)$\times10^{-1}$	(1.344 0.075 0.028)$\times10^{-2}$	(5.495 0.330 0.018)$\times10^{-2}$
9.62 – 10.32	(1.962 0.026 0.025)$\times10^{-1}$	(1.079 0.064 0.023)$\times10^{-2}$	(5.481 0.350 0.018)$\times10^{-2}$
10.32 – 11.04	(1.602 0.023 0.021)$\times10^{-1}$	(9.513 0.570 0.210)$\times10^{-3}$	(6.077 0.400 0.020)$\times10^{-2}$
11.04 – 11.80	(1.327 0.020 0.017)$\times10^{-1}$	(8.001 0.500 0.180)$\times10^{-3}$	(5.953 0.410 0.019)$\times10^{-2}$
11.80 – 12.59	(1.086 0.017 0.014)$\times10^{-1}$	(7.492 0.470 0.170)$\times10^{-3}$	(6.855 0.470 0.022)$\times10^{-2}$
12.59 – 13.41	(8.740 0.150 0.120)$\times10^{-2}$	(5.144 0.380 0.120)$\times10^{-3}$	(5.794 0.460 0.019)$\times10^{-2}$
13.41 – 14.25	(7.545 0.130 0.100)$\times10^{-2}$	(4.539 0.340 0.110)$\times10^{-3}$	(5.895 0.490 0.019)$\times10^{-2}$
14.25 – 15.14	(5.828 0.110 0.080)$\times10^{-2}$	(3.769 0.300 0.090)$\times10^{-3}$	(6.564 0.560 0.021)$\times10^{-2}$
15.14 – 16.05	(4.815 0.099 0.067)$\times10^{-2}$	(2.829 0.250 0.069)$\times10^{-3}$	(5.870 0.570 0.019)$\times10^{-2}$
16.05 – 17.00	(4.399 0.091 0.062)$\times10^{-2}$	(2.167 0.210 0.053)$\times10^{-3}$	(5.062 0.530 0.017)$\times10^{-2}$
17.00 – 17.98	(3.489 0.079 0.050)$\times10^{-2}$	(2.329 0.210 0.058)$\times10^{-3}$	(6.883 0.680 0.023)$\times10^{-2}$
17.98 – 18.99	(2.751 0.068 0.040)$\times10^{-2}$	(1.799 0.180 0.045)$\times10^{-3}$	(7.011 0.750 0.023)$\times10^{-2}$
18.99 – 20.04	(2.425 0.061 0.035)$\times10^{-2}$	(1.731 0.170 0.044)$\times10^{-3}$	(6.843 0.750 0.023)$\times10^{-2}$
20.04 – 21.13	(2.067 0.055 0.030)$\times10^{-2}$	(1.489 0.150 0.038)$\times10^{-3}$	(6.887 0.800 0.023)$\times10^{-2}$
21.13 – 22.25	(1.769 0.049 0.026)$\times10^{-2}$	(1.087 0.130 0.028)$\times10^{-3}$	(6.368 0.800 0.022)$\times10^{-2}$
22.25 – 23.42	(1.470 0.043 0.022)$\times10^{-2}$	(1.077 0.120 0.028)$\times10^{-3}$	(8.192 0.960 0.028)$\times10^{-2}$
23.42 – 24.62	(1.180 0.037 0.018)$\times10^{-2}$	(7.152 0.960 0.180)$\times10^{-4}$	(6.363 0.900 0.022)$\times10^{-2}$
24.62 – 25.90	(1.058 0.033 0.016)$\times10^{-2}$	(5.676 0.820 0.150)$\times10^{-4}$	(5.197 0.830 0.018)$\times10^{-2}$

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TABLE SM LI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.431\ 0.300\ 0.150)\times10^{-3}$	$(7.833\ 0.910\ 0.200)\times10^{-4}$	$(7.675\ 1.000\ 0.026)\times10^{-2}$
27.25 – 28.68	$(8.387\ 0.280\ 0.130)\times10^{-3}$	$(6.039\ 0.770\ 0.160)\times10^{-4}$	$(6.939\ 1.000\ 0.024)\times10^{-2}$
28.68 – 30.21	$(6.401\ 0.230\ 0.100)\times10^{-3}$	$(4.881\ 0.650\ 0.130)\times10^{-4}$	$(8.510\ 1.200\ 0.030)\times10^{-2}$
30.21 – 31.82	$(5.501\ 0.210\ 0.087)\times10^{-3}$	$(4.398\ 0.600\ 0.110)\times10^{-4}$	$(7.821\ 1.200\ 0.027)\times10^{-2}$
31.82 – 33.53	$(4.588\ 0.180\ 0.073)\times10^{-3}$	$(3.897\ 0.550\ 0.100)\times10^{-4}$	$(8.717\ 1.300\ 0.031)\times10^{-2}$
33.53 – 35.36	$(3.841\ 0.160\ 0.062)\times10^{-3}$	$(3.529\ 0.500\ 0.091)\times10^{-4}$	$(10.45\ 1.600\ 0.038)\times10^{-2}$
35.36 – 37.31	$(3.360\ 0.140\ 0.055)\times10^{-3}$	$(3.020\ 0.450\ 0.077)\times10^{-4}$	$(9.078\ 1.500\ 0.033)\times10^{-2}$
37.31 – 39.39	$(2.801\ 0.130\ 0.046)\times10^{-3}$	$(2.723\ 0.420\ 0.070)\times10^{-4}$	$(8.928\ 1.600\ 0.033)\times10^{-2}$
39.39 – 41.61	$(2.428\ 0.120\ 0.041)\times10^{-3}$	$(1.781\ 0.320\ 0.046)\times10^{-4}$	$(8.590\ 1.600\ 0.033)\times10^{-2}$
41.61 – 44.00	$(1.899\ 0.099\ 0.032)\times10^{-3}$	$(1.775\ 0.310\ 0.045)\times10^{-4}$	$(8.336\ 1.700\ 0.033)\times10^{-2}$
44.00 – 46.57	$(1.749\ 0.092\ 0.030)\times10^{-3}$	$(1.527\ 0.290\ 0.039)\times10^{-4}$	$(8.979\ 1.900\ 0.036)\times10^{-2}$
46.57 – 49.33	$(1.433\ 0.080\ 0.025)\times10^{-3}$	$(1.231\ 0.240\ 0.032)\times10^{-4}$	$(8.267\ 1.900\ 0.035)\times10^{-2}$

TABLE SM LII: For Bartels Rotation 2478 (March 19, 2015 – April 14, 2015), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(8.780 0.180 0.150)×10^{0}	(1.263 0.072 0.023)×10^{0}	(14.61 0.930 0.170)×10^{-2}
1.22 – 1.46	(7.931 0.140 0.120)×10^{0}	(9.535 0.490 0.150)×10^{-1}	(12.05 0.680 0.130)×10^{-2}
1.46 – 1.72	(7.136 0.100 0.091)×10^{0}	(7.935 0.340 0.110)×10^{-1}	(11.20 0.530 0.120)×10^{-2}
1.72 – 2.00	(5.910 0.072 0.066)×10^{0}	(6.009 0.240 0.080)×10^{-1}	(10.23 0.440 0.110)×10^{-2}
2.00 – 2.31	(5.031 0.054 0.050)×10^{0}	(4.348 0.160 0.058)×10^{-1}	(8.958 0.370 0.089)×10^{-2}
2.31 – 2.65	(4.238 0.042 0.039)×10^{0}	(3.516 0.120 0.047)×10^{-1}	(8.299 0.320 0.079)×10^{-2}
2.65 – 3.00	(3.545 0.034 0.031)×10^{0}	(2.721 0.098 0.038)×10^{-1}	(7.675 0.300 0.070)×10^{-2}
3.00 – 3.36	(2.851 0.028 0.025)×10^{0}	(2.226 0.080 0.033)×10^{-1}	(7.771 0.310 0.067)×10^{-2}
3.36 – 3.73	(2.407 0.023 0.021)×10^{0}	(1.787 0.066 0.027)×10^{-1}	(7.558 0.300 0.061)×10^{-2}
3.73 – 4.12	(1.990 0.019 0.018)×10^{0}	(1.429 0.054 0.023)×10^{-1}	(7.336 0.290 0.055)×10^{-2}
4.12 – 4.54	(1.646 0.016 0.015)×10^{0}	(1.070 0.042 0.018)×10^{-1}	(6.574 0.280 0.046)×10^{-2}
4.54 – 5.00	(1.364 0.013 0.013)×10^{0}	(8.381 0.330 0.140)×10^{-2}	(6.362 0.270 0.040)×10^{-2}
5.00 – 5.49	(1.071 0.010 0.011)×10^{0}	(6.605 0.270 0.110)×10^{-2}	(6.177 0.270 0.035)×10^{-2}
5.49 – 6.00	(8.607 0.085 0.090)×10^{-1}	(5.270 0.220 0.094)×10^{-2}	(6.284 0.280 0.032)×10^{-2}
6.00 – 6.54	(6.918 0.070 0.075)×10^{-1}	(4.267 0.180 0.078)×10^{-2}	(6.347 0.290 0.028)×10^{-2}
6.54 – 7.10	(5.669 0.059 0.064)×10^{-1}	(3.570 0.150 0.067)×10^{-2}	(6.318 0.300 0.024)×10^{-2}
7.10 – 7.69	(4.581 0.050 0.053)×10^{-1}	(2.752 0.130 0.053)×10^{-2}	(5.844 0.300 0.021)×10^{-2}
7.69 – 8.30	(3.710 0.042 0.044)×10^{-1}	(2.217 0.110 0.043)×10^{-2}	(6.092 0.320 0.021)×10^{-2}
8.30 – 8.95	(2.977 0.036 0.036)×10^{-1}	(1.707 0.090 0.034)×10^{-2}	(5.535 0.320 0.019)×10^{-2}
8.95 – 9.62	(2.390 0.031 0.029)×10^{-1}	(1.371 0.077 0.028)×10^{-2}	(5.724 0.350 0.019)×10^{-2}
9.62 – 10.32	(1.903 0.026 0.024)×10^{-1}	(1.137 0.068 0.024)×10^{-2}	(6.036 0.380 0.020)×10^{-2}
10.32 – 11.04	(1.580 0.023 0.020)×10^{-1}	(8.795 0.560 0.190)×10^{-3}	(5.799 0.400 0.019)×10^{-2}
11.04 – 11.80	(1.317 0.020 0.017)×10^{-1}	(7.512 0.500 0.170)×10^{-3}	(5.587 0.410 0.018)×10^{-2}
11.80 – 12.59	(1.055 0.017 0.014)×10^{-1}	(6.090 0.430 0.140)×10^{-3}	(5.822 0.450 0.019)×10^{-2}
12.59 – 13.41	(8.875 0.150 0.120)×10^{-2}	(4.897 0.370 0.110)×10^{-3}	(5.386 0.450 0.017)×10^{-2}
13.41 – 14.25	(7.263 0.130 0.099)×10^{-2}	(4.682 0.350 0.110)×10^{-3}	(5.990 0.510 0.019)×10^{-2}
14.25 – 15.14	(5.842 0.110 0.081)×10^{-2}	(3.994 0.310 0.096)×10^{-3}	(6.722 0.580 0.022)×10^{-2}
15.14 – 16.05	(4.870 0.100 0.068)×10^{-2}	(3.034 0.260 0.074)×10^{-3}	(6.176 0.590 0.020)×10^{-2}
16.05 – 17.00	(4.289 0.091 0.061)×10^{-2}	(2.496 0.230 0.061)×10^{-3}	(6.357 0.610 0.021)×10^{-2}
17.00 – 17.98	(3.370 0.079 0.048)×10^{-2}	(2.109 0.210 0.052)×10^{-3}	(5.570 0.630 0.018)×10^{-2}
17.98 – 18.99	(2.846 0.070 0.041)×10^{-2}	(2.130 0.200 0.053)×10^{-3}	(6.940 0.750 0.023)×10^{-2}
18.99 – 20.04	(2.411 0.062 0.035)×10^{-2}	(1.513 0.160 0.038)×10^{-3}	(6.273 0.740 0.021)×10^{-2}
20.04 – 21.13	(2.092 0.056 0.031)×10^{-2}	(1.362 0.150 0.035)×10^{-3}	(6.177 0.750 0.021)×10^{-2}
21.13 – 22.25	(1.675 0.049 0.025)×10^{-2}	(1.021 0.130 0.026)×10^{-3}	(5.868 0.810 0.020)×10^{-2}
22.25 – 23.42	(1.451 0.043 0.022)×10^{-2}	(1.054 0.120 0.027)×10^{-3}	(7.815 0.970 0.027)×10^{-2}
23.42 – 24.62	(1.259 0.039 0.019)×10^{-2}	(9.312 1.100 0.240)×10^{-4}	(8.368 1.000 0.029)×10^{-2}
24.62 – 25.90	(1.036 0.034 0.016)×10^{-2}	(6.833 0.900 0.180)×10^{-4}	(7.289 1.000 0.025)×10^{-2}

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TABLE SM LII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.171\ 0.310\ 0.140)\times10^{-3}$	$(6.605\ 0.860\ 0.170)\times10^{-4}$	$(8.167\ 1.100\ 0.028)\times10^{-2}$
27.25 – 28.68	$(7.839\ 0.270\ 0.120)\times10^{-3}$	$(5.835\ 0.760\ 0.150)\times10^{-4}$	$(7.380\ 1.100\ 0.025)\times10^{-2}$
28.68 – 30.21	$(6.705\ 0.240\ 0.110)\times10^{-3}$	$(5.017\ 0.690\ 0.130)\times10^{-4}$	$(8.035\ 1.200\ 0.028)\times10^{-2}$
30.21 – 31.82	$(5.204\ 0.200\ 0.082)\times10^{-3}$	$(3.799\ 0.580\ 0.098)\times10^{-4}$	$(6.827\ 1.200\ 0.024)\times10^{-2}$
31.82 – 33.53	$(4.897\ 0.190\ 0.078)\times10^{-3}$	$(3.667\ 0.540\ 0.094)\times10^{-4}$	$(8.274\ 1.300\ 0.029)\times10^{-2}$
33.53 – 35.36	$(4.189\ 0.170\ 0.068)\times10^{-3}$	$(1.899\ 0.380\ 0.049)\times10^{-4}$	$(4.322\ 0.950\ 0.016)\times10^{-2}$
35.36 – 37.31	$(3.237\ 0.140\ 0.053)\times10^{-3}$	$(2.764\ 0.440\ 0.071)\times10^{-4}$	$(8.903\ 1.600\ 0.033)\times10^{-2}$
37.31 – 39.39	$(2.711\ 0.130\ 0.045)\times10^{-3}$	$(2.797\ 0.430\ 0.072)\times10^{-4}$	$(10.45\ 1.800\ 0.039)\times10^{-2}$
39.39 – 41.61	$(2.348\ 0.120\ 0.039)\times10^{-3}$	$(2.664\ 0.400\ 0.068)\times10^{-4}$	$(10.03\ 1.800\ 0.038)\times10^{-2}$
41.61 – 44.00	$(2.010\ 0.100\ 0.034)\times10^{-3}$	$(1.585\ 0.300\ 0.041)\times10^{-4}$	$(8.887\ 1.900\ 0.035)\times10^{-2}$
44.00 – 46.57	$(1.574\ 0.089\ 0.027)\times10^{-3}$	$(1.067\ 0.240\ 0.027)\times10^{-4}$	$(8.146\ 2.000\ 0.033)\times10^{-2}$
46.57 – 49.33	$(1.405\ 0.081\ 0.024)\times10^{-3}$	$(1.154\ 0.240\ 0.030)\times10^{-4}$	$(8.660\ 1.900\ 0.036)\times10^{-2}$

TABLE SM LIII: For Bartels Rotation 2479 (April 15, 2015 – May 11, 2015), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(8.681 0.190 0.150)$\times10^{0}$	(1.305 0.075 0.023)$\times10^{0}$	(14.89 0.950 0.170)$\times10^{-2}$
1.22 – 1.46	(8.203 0.140 0.120)$\times10^{0}$	(9.132 0.480 0.140)$\times10^{-1}$	(11.34 0.650 0.120)$\times10^{-2}$
1.46 – 1.72	(7.170 0.099 0.091)$\times10^{0}$	(8.145 0.340 0.110)$\times10^{-1}$	(11.09 0.520 0.120)$\times10^{-2}$
1.72 – 2.00	(6.229 0.073 0.070)$\times10^{0}$	(6.794 0.250 0.091)$\times10^{-1}$	(11.20 0.440 0.120)$\times10^{-2}$
2.00 – 2.31	(5.276 0.054 0.053)$\times10^{0}$	(5.000 0.170 0.066)$\times10^{-1}$	(9.291 0.350 0.093)$\times10^{-2}$
2.31 – 2.65	(4.445 0.042 0.041)$\times10^{0}$	(3.787 0.130 0.051)$\times10^{-1}$	(8.448 0.310 0.081)$\times10^{-2}$
2.65 – 3.00	(3.669 0.034 0.033)$\times10^{0}$	(2.991 0.099 0.042)$\times10^{-1}$	(8.091 0.290 0.074)$\times10^{-2}$
3.00 – 3.36	(3.066 0.028 0.027)$\times10^{0}$	(2.508 0.082 0.037)$\times10^{-1}$	(8.323 0.290 0.072)$\times10^{-2}$
3.36 – 3.73	(2.514 0.023 0.022)$\times10^{0}$	(1.884 0.065 0.029)$\times10^{-1}$	(7.216 0.280 0.058)$\times10^{-2}$
3.73 – 4.12	(2.136 0.019 0.019)$\times10^{0}$	(1.381 0.051 0.022)$\times10^{-1}$	(6.514 0.260 0.049)$\times10^{-2}$
4.12 – 4.54	(1.715 0.016 0.016)$\times10^{0}$	(1.077 0.041 0.018)$\times10^{-1}$	(6.178 0.250 0.043)$\times10^{-2}$
4.54 – 5.00	(1.406 0.013 0.014)$\times10^{0}$	(8.769 0.330 0.150)$\times10^{-2}$	(6.270 0.250 0.040)$\times10^{-2}$
5.00 – 5.49	(1.151 0.010 0.012)$\times10^{0}$	(7.214 0.270 0.130)$\times10^{-2}$	(6.282 0.260 0.036)$\times10^{-2}$
5.49 – 6.00	(9.299 0.086 0.097)$\times10^{-1}$	(5.705 0.220 0.100)$\times10^{-2}$	(5.950 0.260 0.030)$\times10^{-2}$
6.00 – 6.54	(7.303 0.070 0.079)$\times10^{-1}$	(4.440 0.180 0.081)$\times10^{-2}$	(6.177 0.270 0.027)$\times10^{-2}$
6.54 – 7.10	(6.009 0.059 0.068)$\times10^{-1}$	(3.398 0.150 0.063)$\times10^{-2}$	(5.847 0.270 0.022)$\times10^{-2}$
7.10 – 7.69	(4.778 0.050 0.055)$\times10^{-1}$	(2.772 0.130 0.053)$\times10^{-2}$	(5.805 0.280 0.021)$\times10^{-2}$
7.69 – 8.30	(3.751 0.042 0.045)$\times10^{-1}$	(2.192 0.110 0.043)$\times10^{-2}$	(6.088 0.310 0.021)$\times10^{-2}$
8.30 – 8.95	(3.081 0.036 0.037)$\times10^{-1}$	(1.764 0.089 0.035)$\times10^{-2}$	(5.913 0.320 0.020)$\times10^{-2}$
8.95 – 9.62	(2.499 0.031 0.031)$\times10^{-1}$	(1.410 0.077 0.029)$\times10^{-2}$	(5.682 0.330 0.019)$\times10^{-2}$
9.62 – 10.32	(2.025 0.026 0.026)$\times10^{-1}$	(1.096 0.065 0.023)$\times10^{-2}$	(5.085 0.330 0.017)$\times10^{-2}$
10.32 – 11.04	(1.641 0.023 0.021)$\times10^{-1}$	(9.967 0.590 0.220)$\times10^{-3}$	(6.009 0.390 0.019)$\times10^{-2}$
11.04 – 11.80	(1.383 0.020 0.018)$\times10^{-1}$	(7.799 0.500 0.170)$\times10^{-3}$	(5.631 0.390 0.018)$\times10^{-2}$
11.80 – 12.59	(1.127 0.017 0.015)$\times10^{-1}$	(6.853 0.450 0.160)$\times10^{-3}$	(6.449 0.450 0.021)$\times10^{-2}$
12.59 – 13.41	(9.037 0.150 0.120)$\times10^{-2}$	(5.079 0.370 0.120)$\times10^{-3}$	(6.145 0.470 0.020)$\times10^{-2}$
13.41 – 14.25	(7.620 0.130 0.100)$\times10^{-2}$	(4.134 0.330 0.098)$\times10^{-3}$	(5.387 0.470 0.017)$\times10^{-2}$
14.25 – 15.14	(6.104 0.110 0.084)$\times10^{-2}$	(3.104 0.270 0.074)$\times10^{-3}$	(5.230 0.490 0.017)$\times10^{-2}$
15.14 – 16.05	(5.116 0.100 0.071)$\times10^{-2}$	(2.909 0.250 0.071)$\times10^{-3}$	(5.737 0.540 0.019)$\times10^{-2}$
16.05 – 17.00	(4.194 0.089 0.059)$\times10^{-2}$	(2.623 0.230 0.065)$\times10^{-3}$	(6.495 0.620 0.021)$\times10^{-2}$
17.00 – 17.98	(3.543 0.079 0.051)$\times10^{-2}$	(1.963 0.190 0.049)$\times10^{-3}$	(5.392 0.600 0.018)$\times10^{-2}$
17.98 – 18.99	(3.053 0.071 0.044)$\times10^{-2}$	(1.517 0.170 0.038)$\times10^{-3}$	(5.177 0.610 0.017)$\times10^{-2}$
18.99 – 20.04	(2.510 0.063 0.037)$\times10^{-2}$	(1.487 0.160 0.038)$\times10^{-3}$	(6.086 0.710 0.020)$\times10^{-2}$
20.04 – 21.13	(2.132 0.056 0.031)$\times10^{-2}$	(1.210 0.140 0.031)$\times10^{-3}$	(5.383 0.700 0.018)$\times10^{-2}$
21.13 – 22.25	(1.718 0.048 0.026)$\times10^{-2}$	(1.069 0.130 0.027)$\times10^{-3}$	(6.726 0.840 0.023)$\times10^{-2}$
22.25 – 23.42	(1.523 0.044 0.023)$\times10^{-2}$	(1.033 0.120 0.026)$\times10^{-3}$	(7.520 0.910 0.026)$\times10^{-2}$
23.42 – 24.62	(1.275 0.039 0.019)$\times10^{-2}$	(1.026 0.110 0.026)$\times10^{-3}$	(7.938 0.990 0.027)$\times10^{-2}$
24.62 – 25.90	(1.042 0.033 0.016)$\times10^{-2}$	(7.633 0.950 0.200)$\times10^{-4}$	(7.035 0.980 0.024)$\times10^{-2}$

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TABLE SM LIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.012\ 0.300\ 0.140)\times10^{-3}$	$(5.505\ 0.760\ 0.140)\times10^{-4}$	$(6.128\ 0.920\ 0.021)\times10^{-2}$
27.25 – 28.68	$(7.843\ 0.270\ 0.120)\times10^{-3}$	$(4.681\ 0.670\ 0.120)\times10^{-4}$	$(5.563\ 0.910\ 0.019)\times10^{-2}$
28.68 – 30.21	$(6.575\ 0.230\ 0.100)\times10^{-3}$	$(4.902\ 0.670\ 0.130)\times10^{-4}$	$(7.350\ 1.100\ 0.026)\times10^{-2}$
30.21 – 31.82	$(5.471\ 0.210\ 0.087)\times10^{-3}$	$(4.558\ 0.620\ 0.120)\times10^{-4}$	$(7.949\ 1.200\ 0.028)\times10^{-2}$
31.82 – 33.53	$(4.592\ 0.180\ 0.074)\times10^{-3}$	$(4.225\ 0.570\ 0.110)\times10^{-4}$	$(8.888\ 1.400\ 0.032)\times10^{-2}$
33.53 – 35.36	$(4.125\ 0.170\ 0.067)\times10^{-3}$	$(2.649\ 0.430\ 0.068)\times10^{-4}$	$(6.603\ 1.200\ 0.024)\times10^{-2}$
35.36 – 37.31	$(3.233\ 0.140\ 0.053)\times10^{-3}$	$(2.504\ 0.410\ 0.064)\times10^{-4}$	$(7.056\ 1.300\ 0.026)\times10^{-2}$
37.31 – 39.39	$(2.691\ 0.130\ 0.045)\times10^{-3}$	$(2.216\ 0.370\ 0.057)\times10^{-4}$	$(8.937\ 1.600\ 0.033)\times10^{-2}$
39.39 – 41.61	$(2.333\ 0.110\ 0.039)\times10^{-3}$	$(1.989\ 0.350\ 0.051)\times10^{-4}$	$(7.543\ 1.600\ 0.029)\times10^{-2}$
41.61 – 44.00	$(2.030\ 0.100\ 0.034)\times10^{-3}$	$(1.259\ 0.260\ 0.032)\times10^{-4}$	$(6.603\ 1.500\ 0.026)\times10^{-2}$
44.00 – 46.57	$(1.558\ 0.087\ 0.027)\times10^{-3}$	$(2.108\ 0.340\ 0.054)\times10^{-4}$	$(12.03\ 2.300\ 0.049)\times10^{-2}$
46.57 – 49.33	$(1.341\ 0.078\ 0.023)\times10^{-3}$	$(1.919\ 0.300\ 0.049)\times10^{-4}$	$(13.87\ 2.600\ 0.058)\times10^{-2}$

TABLE SM LIV: For Bartels Rotation 2480 (May 12, 2015 – June 07, 2015), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(9.083 0.190 0.150)×10^{0}	(1.379 0.076 0.025)×10^{0}	(14.93 0.930 0.170)×10^{-2}
1.22 – 1.46	(8.330 0.140 0.120)×10^{0}	(1.126 0.053 0.017)×10^{0}	(13.66 0.710 0.150)×10^{-2}
1.46 – 1.72	(7.651 0.100 0.098)×10^{0}	(9.197 0.370 0.130)×10^{-1}	(11.66 0.520 0.120)×10^{-2}
1.72 – 2.00	(6.509 0.074 0.073)×10^{0}	(6.813 0.250 0.091)×10^{-1}	(10.40 0.420 0.110)×10^{-2}
2.00 – 2.31	(5.553 0.056 0.056)×10^{0}	(5.401 0.180 0.072)×10^{-1}	(9.745 0.350 0.097)×10^{-2}
2.31 – 2.65	(4.771 0.043 0.044)×10^{0}	(4.177 0.130 0.056)×10^{-1}	(8.790 0.300 0.084)×10^{-2}
2.65 – 3.00	(3.969 0.035 0.035)×10^{0}	(3.273 0.100 0.046)×10^{-1}	(8.323 0.290 0.076)×10^{-2}
3.00 – 3.36	(3.278 0.029 0.029)×10^{0}	(2.556 0.084 0.038)×10^{-1}	(7.812 0.280 0.067)×10^{-2}
3.36 – 3.73	(2.695 0.024 0.024)×10^{0}	(1.882 0.066 0.029)×10^{-1}	(7.155 0.270 0.058)×10^{-2}
3.73 – 4.12	(2.264 0.020 0.021)×10^{0}	(1.530 0.054 0.024)×10^{-1}	(6.870 0.260 0.052)×10^{-2}
4.12 – 4.54	(1.825 0.016 0.017)×10^{0}	(1.324 0.045 0.022)×10^{-1}	(7.351 0.270 0.051)×10^{-2}
4.54 – 5.00	(1.501 0.013 0.014)×10^{0}	(9.343 0.350 0.160)×10^{-2}	(6.110 0.250 0.039)×10^{-2}
5.00 – 5.49	(1.199 0.011 0.012)×10^{0}	(7.454 0.280 0.130)×10^{-2}	(6.408 0.260 0.036)×10^{-2}
5.49 – 6.00	(9.593 0.088 0.100)×10^{-1}	(5.709 0.220 0.100)×10^{-2}	(6.006 0.250 0.030)×10^{-2}
6.00 – 6.54	(7.686 0.072 0.084)×10^{-1}	(4.554 0.180 0.083)×10^{-2}	(5.948 0.260 0.026)×10^{-2}
6.54 – 7.10	(5.992 0.060 0.067)×10^{-1}	(3.453 0.150 0.064)×10^{-2}	(5.869 0.270 0.023)×10^{-2}
7.10 – 7.69	(4.969 0.051 0.057)×10^{-1}	(2.908 0.130 0.056)×10^{-2}	(5.477 0.270 0.020)×10^{-2}
7.69 – 8.30	(3.942 0.043 0.047)×10^{-1}	(2.202 0.110 0.043)×10^{-2}	(5.500 0.290 0.019)×10^{-2}
8.30 – 8.95	(3.218 0.037 0.039)×10^{-1}	(1.913 0.093 0.038)×10^{-2}	(6.045 0.320 0.020)×10^{-2}
8.95 – 9.62	(2.574 0.031 0.032)×10^{-1}	(1.527 0.080 0.031)×10^{-2}	(6.158 0.340 0.020)×10^{-2}
9.62 – 10.32	(2.058 0.027 0.026)×10^{-1}	(1.302 0.071 0.028)×10^{-2}	(6.354 0.370 0.021)×10^{-2}
10.32 – 11.04	(1.671 0.023 0.021)×10^{-1}	(9.515 0.580 0.210)×10^{-3}	(6.056 0.390 0.020)×10^{-2}
11.04 – 11.80	(1.408 0.020 0.018)×10^{-1}	(7.033 0.470 0.160)×10^{-3}	(4.933 0.360 0.016)×10^{-2}
11.80 – 12.59	(1.109 0.017 0.015)×10^{-1}	(5.998 0.420 0.140)×10^{-3}	(5.562 0.420 0.018)×10^{-2}
12.59 – 13.41	(8.931 0.150 0.120)×10^{-2}	(5.350 0.380 0.120)×10^{-3}	(6.282 0.490 0.020)×10^{-2}
13.41 – 14.25	(7.477 0.130 0.100)×10^{-2}	(4.564 0.340 0.110)×10^{-3}	(6.235 0.510 0.020)×10^{-2}
14.25 – 15.14	(6.327 0.120 0.087)×10^{-2}	(4.068 0.310 0.098)×10^{-3}	(6.306 0.530 0.020)×10^{-2}
15.14 – 16.05	(5.191 0.100 0.073)×10^{-2}	(2.889 0.250 0.070)×10^{-3}	(5.614 0.540 0.018)×10^{-2}
16.05 – 17.00	(4.022 0.088 0.057)×10^{-2}	(2.727 0.240 0.067)×10^{-3}	(6.630 0.640 0.022)×10^{-2}
17.00 – 17.98	(3.484 0.079 0.050)×10^{-2}	(2.273 0.210 0.057)×10^{-3}	(6.652 0.670 0.022)×10^{-2}
17.98 – 18.99	(2.950 0.071 0.043)×10^{-2}	(2.060 0.190 0.052)×10^{-3}	(7.069 0.730 0.024)×10^{-2}
18.99 – 20.04	(2.548 0.064 0.037)×10^{-2}	(1.797 0.170 0.045)×10^{-3}	(7.281 0.770 0.024)×10^{-2}
20.04 – 21.13	(2.140 0.056 0.032)×10^{-2}	(1.423 0.150 0.036)×10^{-3}	(6.631 0.770 0.022)×10^{-2}
21.13 – 22.25	(1.843 0.051 0.027)×10^{-2}	(1.215 0.140 0.031)×10^{-3}	(6.988 0.840 0.024)×10^{-2}
22.25 – 23.42	(1.467 0.044 0.022)×10^{-2}	(1.069 0.120 0.027)×10^{-3}	(7.077 0.910 0.024)×10^{-2}
23.42 – 24.62	(1.301 0.040 0.020)×10^{-2}	(9.906 1.100 0.250)×10^{-4}	(7.543 0.980 0.026)×10^{-2}
24.62 – 25.90	(1.050 0.034 0.016)×10^{-2}	(8.952 1.000 0.230)×10^{-4}	(7.956 1.100 0.027)×10^{-2}

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TABLE SM LIV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.298\ 0.310\ 0.140)\times10^{-3}$	$(5.979\ 0.810\ 0.150)\times10^{-4}$	$(5.593\ 0.880\ 0.019)\times10^{-2}$
27.25 – 28.68	$(7.477\ 0.270\ 0.120)\times10^{-3}$	$(7.063\ 0.840\ 0.180)\times10^{-4}$	$(9.100\ 1.200\ 0.031)\times10^{-2}$
28.68 – 30.21	$(6.679\ 0.240\ 0.100)\times10^{-3}$	$(5.448\ 0.720\ 0.140)\times10^{-4}$	$(8.440\ 1.200\ 0.029)\times10^{-2}$
30.21 – 31.82	$(5.479\ 0.210\ 0.087)\times10^{-3}$	$(2.959\ 0.510\ 0.076)\times10^{-4}$	$(4.848\ 0.960\ 0.017)\times10^{-2}$
31.82 – 33.53	$(4.687\ 0.190\ 0.075)\times10^{-3}$	$(3.124\ 0.510\ 0.080)\times10^{-4}$	$(6.958\ 1.200\ 0.025)\times10^{-2}$
33.53 – 35.36	$(3.981\ 0.170\ 0.064)\times10^{-3}$	$(2.973\ 0.470\ 0.076)\times10^{-4}$	$(7.397\ 1.300\ 0.027)\times10^{-2}$
35.36 – 37.31	$(3.295\ 0.150\ 0.054)\times10^{-3}$	$(1.817\ 0.360\ 0.047)\times10^{-4}$	$(5.678\ 1.200\ 0.021)\times10^{-2}$
37.31 – 39.39	$(2.729\ 0.130\ 0.045)\times10^{-3}$	$(2.400\ 0.400\ 0.062)\times10^{-4}$	$(7.202\ 1.500\ 0.027)\times10^{-2}$
39.39 – 41.61	$(2.241\ 0.110\ 0.037)\times10^{-3}$	$(1.792\ 0.330\ 0.046)\times10^{-4}$	$(8.496\ 1.700\ 0.033)\times10^{-2}$
41.61 – 44.00	$(1.778\ 0.098\ 0.030)\times10^{-3}$	$(1.827\ 0.320\ 0.047)\times10^{-4}$	$(9.381\ 2.000\ 0.037)\times10^{-2}$
44.00 – 46.57	$(1.551\ 0.089\ 0.027)\times10^{-3}$	$(1.732\ 0.300\ 0.044)\times10^{-4}$	$(10.58\ 2.100\ 0.043)\times10^{-2}$
46.57 – 49.33	$(1.431\ 0.083\ 0.025)\times10^{-3}$	$(1.337\ 0.260\ 0.034)\times10^{-4}$	$(9.567\ 2.100\ 0.040)\times10^{-2}$

TABLE SM LV: For Bartels Rotation 2481 (June 08, 2015 – July 04, 2015), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(8.974 0.190 0.150)×10^{0}	(1.351 0.076 0.024)×10^{0}	(15.65 0.970 0.180)×10^{-2}
1.22 – 1.46	(8.528 0.140 0.120)×10^{0}	(1.160 0.054 0.018)×10^{0}	(13.46 0.700 0.150)×10^{-2}
1.46 – 1.72	(7.519 0.100 0.096)×10^{0}	(1.019 0.038 0.014)×10^{0}	(13.27 0.560 0.140)×10^{-2}
1.72 – 2.00	(6.611 0.075 0.074)×10^{0}	(7.274 0.260 0.097)×10^{-1}	(11.36 0.440 0.120)×10^{-2}
2.00 – 2.31	(5.584 0.056 0.056)×10^{0}	(5.260 0.180 0.070)×10^{-1}	(9.597 0.350 0.096)×10^{-2}
2.31 – 2.65	(4.575 0.043 0.042)×10^{0}	(4.396 0.140 0.059)×10^{-1}	(9.784 0.330 0.094)×10^{-2}
2.65 – 3.00	(3.911 0.035 0.035)×10^{0}	(3.224 0.100 0.045)×10^{-1}	(8.309 0.290 0.076)×10^{-2}
3.00 – 3.36	(3.155 0.029 0.028)×10^{0}	(2.614 0.085 0.038)×10^{-1}	(8.360 0.300 0.072)×10^{-2}
3.36 – 3.73	(2.610 0.024 0.023)×10^{0}	(2.119 0.070 0.032)×10^{-1}	(8.245 0.300 0.067)×10^{-2}
3.73 – 4.12	(2.148 0.020 0.019)×10^{0}	(1.577 0.055 0.025)×10^{-1}	(7.009 0.270 0.053)×10^{-2}
4.12 – 4.54	(1.775 0.016 0.016)×10^{0}	(1.184 0.043 0.019)×10^{-1}	(6.548 0.260 0.045)×10^{-2}
4.54 – 5.00	(1.424 0.013 0.014)×10^{0}	(9.498 0.350 0.160)×10^{-2}	(6.600 0.270 0.042)×10^{-2}
5.00 – 5.49	(1.149 0.011 0.012)×10^{0}	(7.217 0.280 0.130)×10^{-2}	(6.282 0.260 0.036)×10^{-2}
5.49 – 6.00	(9.265 0.088 0.097)×10^{-1}	(5.472 0.220 0.098)×10^{-2}	(6.042 0.260 0.030)×10^{-2}
6.00 – 6.54	(7.463 0.072 0.081)×10^{-1}	(4.220 0.180 0.077)×10^{-2}	(5.776 0.260 0.026)×10^{-2}
6.54 – 7.10	(5.923 0.060 0.067)×10^{-1}	(3.446 0.150 0.064)×10^{-2}	(5.838 0.280 0.022)×10^{-2}
7.10 – 7.69	(4.757 0.051 0.055)×10^{-1}	(2.911 0.130 0.056)×10^{-2}	(6.127 0.300 0.022)×10^{-2}
7.69 – 8.30	(3.820 0.043 0.045)×10^{-1}	(2.218 0.110 0.043)×10^{-2}	(5.837 0.310 0.020)×10^{-2}
8.30 – 8.95	(3.069 0.036 0.037)×10^{-1}	(1.829 0.093 0.037)×10^{-2}	(6.204 0.330 0.021)×10^{-2}
8.95 – 9.62	(2.429 0.031 0.030)×10^{-1}	(1.372 0.077 0.028)×10^{-2}	(5.533 0.340 0.018)×10^{-2}
9.62 – 10.32	(1.986 0.027 0.025)×10^{-1}	(1.157 0.067 0.024)×10^{-2}	(5.944 0.370 0.020)×10^{-2}
10.32 – 11.04	(1.614 0.023 0.021)×10^{-1}	(9.381 0.580 0.200)×10^{-3}	(6.005 0.400 0.019)×10^{-2}
11.04 – 11.80	(1.332 0.020 0.017)×10^{-1}	(7.633 0.500 0.170)×10^{-3}	(5.612 0.410 0.018)×10^{-2}
11.80 – 12.59	(1.093 0.017 0.014)×10^{-1}	(6.145 0.430 0.140)×10^{-3}	(5.874 0.440 0.019)×10^{-2}
12.59 – 13.41	(8.845 0.150 0.120)×10^{-2}	(5.483 0.390 0.130)×10^{-3}	(6.500 0.500 0.021)×10^{-2}
13.41 – 14.25	(7.297 0.130 0.099)×10^{-2}	(4.754 0.350 0.110)×10^{-3}	(6.775 0.550 0.022)×10^{-2}
14.25 – 15.14	(6.070 0.120 0.084)×10^{-2}	(3.597 0.290 0.086)×10^{-3}	(6.263 0.540 0.020)×10^{-2}
15.14 – 16.05	(4.984 0.100 0.070)×10^{-2}	(3.199 0.270 0.078)×10^{-3}	(6.203 0.580 0.020)×10^{-2}
16.05 – 17.00	(4.092 0.089 0.058)×10^{-2}	(2.202 0.220 0.054)×10^{-3}	(5.887 0.610 0.019)×10^{-2}
17.00 – 17.98	(3.490 0.080 0.050)×10^{-2}	(2.181 0.210 0.054)×10^{-3}	(5.762 0.630 0.019)×10^{-2}
17.98 – 18.99	(2.880 0.070 0.042)×10^{-2}	(1.832 0.180 0.046)×10^{-3}	(6.074 0.690 0.020)×10^{-2}
18.99 – 20.04	(2.562 0.064 0.037)×10^{-2}	(1.611 0.170 0.041)×10^{-3}	(6.730 0.740 0.023)×10^{-2}
20.04 – 21.13	(2.178 0.057 0.032)×10^{-2}	(1.206 0.140 0.031)×10^{-3}	(5.366 0.680 0.018)×10^{-2}
21.13 – 22.25	(1.809 0.050 0.027)×10^{-2}	(1.062 0.130 0.027)×10^{-3}	(5.875 0.770 0.020)×10^{-2}
22.25 – 23.42	(1.554 0.045 0.023)×10^{-2}	(1.082 0.120 0.028)×10^{-3}	(7.143 0.880 0.024)×10^{-2}
23.42 – 24.62	(1.294 0.039 0.020)×10^{-2}	(1.039 0.120 0.027)×10^{-3}	(8.181 1.000 0.028)×10^{-2}
24.62 – 25.90	(1.051 0.034 0.016)×10^{-2}	(8.093 0.960 0.210)×10^{-4}	(7.497 1.000 0.026)×10^{-2}

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TABLE SM LV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.164 0.300 0.140)$\times10^{-3}$	(5.326 0.760 0.140)$\times10^{-4}$	(4.828 0.830 0.017)$\times10^{-2}$
27.25 – 28.68	(7.327 0.260 0.110)$\times10^{-3}$	(4.941 0.700 0.130)$\times10^{-4}$	(6.357 1.000 0.022)$\times10^{-2}$
28.68 – 30.21	(6.690 0.240 0.100)$\times10^{-3}$	(5.375 0.690 0.140)$\times10^{-4}$	(7.877 1.100 0.027)$\times10^{-2}$
30.21 – 31.82	(5.759 0.210 0.091)$\times10^{-3}$	(4.425 0.610 0.110)$\times10^{-4}$	(7.489 1.200 0.026)$\times10^{-2}$
31.82 – 33.53	(4.843 0.190 0.078)$\times10^{-3}$	(3.444 0.520 0.088)$\times10^{-4}$	(6.229 1.100 0.022)$\times10^{-2}$
33.53 – 35.36	(3.968 0.160 0.064)$\times10^{-3}$	(3.783 0.520 0.097)$\times10^{-4}$	(9.530 1.500 0.034)$\times10^{-2}$
35.36 – 37.31	(3.075 0.140 0.050)$\times10^{-3}$	(3.750 0.500 0.096)$\times10^{-4}$	(10.58 1.700 0.039)$\times10^{-2}$
37.31 – 39.39	(2.835 0.130 0.047)$\times10^{-3}$	(3.126 0.450 0.080)$\times10^{-4}$	(10.70 1.800 0.040)$\times10^{-2}$
39.39 – 41.61	(2.216 0.110 0.037)$\times10^{-3}$	(2.260 0.370 0.058)$\times10^{-4}$	(9.878 1.900 0.038)$\times10^{-2}$
41.61 – 44.00	(1.740 0.096 0.029)$\times10^{-3}$	(1.193 0.260 0.031)$\times10^{-4}$	(6.267 1.500 0.025)$\times10^{-2}$
44.00 – 46.57	(1.547 0.087 0.026)$\times10^{-3}$	(1.380 0.270 0.035)$\times10^{-4}$	(9.777 2.100 0.040)$\times10^{-2}$
46.57 – 49.33	(1.323 0.078 0.023)$\times10^{-3}$	(1.463 0.270 0.038)$\times10^{-4}$	(10.58 2.200 0.045)$\times10^{-2}$

TABLE SM LVI: For Bartels Rotation 2482 (July 05, 2015 – July 31, 2015), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(9.938 0.200 0.170)$\times10^{0}$	(1.679 0.085 0.030)$\times10^{0}$	(16.90 0.970 0.190)$\times10^{-2}$
1.22 – 1.46	(9.108 0.150 0.130)$\times10^{0}$	(1.375 0.060 0.021)$\times10^{0}$	(14.28 0.710 0.160)$\times10^{-2}$
1.46 – 1.72	(8.134 0.110 0.100)$\times10^{0}$	(9.980 0.390 0.140)$\times10^{-1}$	(12.00 0.520 0.130)$\times10^{-2}$
1.72 – 2.00	(6.799 0.077 0.076)$\times10^{0}$	(7.492 0.260 0.100)$\times10^{-1}$	(10.97 0.430 0.110)$\times10^{-2}$
2.00 – 2.31	(5.801 0.058 0.058)$\times10^{0}$	(5.709 0.190 0.076)$\times10^{-1}$	(9.751 0.350 0.097)$\times10^{-2}$
2.31 – 2.65	(4.946 0.045 0.045)$\times10^{0}$	(4.736 0.140 0.064)$\times10^{-1}$	(9.751 0.320 0.093)$\times10^{-2}$
2.65 – 3.00	(4.060 0.036 0.036)$\times10^{0}$	(3.365 0.110 0.047)$\times10^{-1}$	(8.396 0.290 0.076)$\times10^{-2}$
3.00 – 3.36	(3.323 0.029 0.029)$\times10^{0}$	(2.634 0.086 0.039)$\times10^{-1}$	(8.055 0.280 0.069)$\times10^{-2}$
3.36 – 3.73	(2.714 0.024 0.024)$\times10^{0}$	(1.985 0.068 0.030)$\times10^{-1}$	(7.471 0.280 0.060)$\times10^{-2}$
3.73 – 4.12	(2.274 0.020 0.021)$\times10^{0}$	(1.558 0.055 0.025)$\times10^{-1}$	(7.074 0.270 0.053)$\times10^{-2}$
4.12 – 4.54	(1.862 0.016 0.017)$\times10^{0}$	(1.182 0.043 0.019)$\times10^{-1}$	(6.403 0.250 0.044)$\times10^{-2}$
4.54 – 5.00	(1.499 0.013 0.014)$\times10^{0}$	(9.513 0.350 0.160)$\times10^{-2}$	(6.278 0.250 0.040)$\times10^{-2}$
5.00 – 5.49	(1.199 0.011 0.012)$\times10^{0}$	(7.599 0.280 0.130)$\times10^{-2}$	(6.319 0.260 0.036)$\times10^{-2}$
5.49 – 6.00	(9.509 0.088 0.099)$\times10^{-1}$	(5.908 0.230 0.110)$\times10^{-2}$	(6.301 0.260 0.032)$\times10^{-2}$
6.00 – 6.54	(7.783 0.073 0.085)$\times10^{-1}$	(4.626 0.190 0.084)$\times10^{-2}$	(5.815 0.260 0.026)$\times10^{-2}$
6.54 – 7.10	(6.188 0.061 0.070)$\times10^{-1}$	(3.806 0.160 0.071)$\times10^{-2}$	(6.377 0.280 0.024)$\times10^{-2}$
7.10 – 7.69	(4.859 0.051 0.056)$\times10^{-1}$	(2.864 0.130 0.055)$\times10^{-2}$	(5.848 0.290 0.021)$\times10^{-2}$
7.69 – 8.30	(3.912 0.043 0.046)$\times10^{-1}$	(2.367 0.110 0.046)$\times10^{-2}$	(6.052 0.310 0.021)$\times10^{-2}$
8.30 – 8.95	(3.159 0.036 0.038)$\times10^{-1}$	(1.877 0.093 0.038)$\times10^{-2}$	(5.919 0.320 0.020)$\times10^{-2}$
8.95 – 9.62	(2.519 0.031 0.031)$\times10^{-1}$	(1.391 0.077 0.029)$\times10^{-2}$	(5.563 0.330 0.019)$\times10^{-2}$
9.62 – 10.32	(2.078 0.027 0.026)$\times10^{-1}$	(1.272 0.070 0.027)$\times10^{-2}$	(6.279 0.370 0.021)$\times10^{-2}$
10.32 – 11.04	(1.673 0.023 0.021)$\times10^{-1}$	(9.070 0.570 0.200)$\times10^{-3}$	(5.445 0.370 0.018)$\times10^{-2}$
11.04 – 11.80	(1.353 0.020 0.018)$\times10^{-1}$	(8.105 0.510 0.180)$\times10^{-3}$	(5.716 0.400 0.018)$\times10^{-2}$
11.80 – 12.59	(1.140 0.018 0.015)$\times10^{-1}$	(6.580 0.440 0.150)$\times10^{-3}$	(5.694 0.420 0.018)$\times10^{-2}$
12.59 – 13.41	(8.917 0.150 0.120)$\times10^{-2}$	(4.789 0.360 0.110)$\times10^{-3}$	(5.463 0.450 0.017)$\times10^{-2}$
13.41 – 14.25	(7.521 0.130 0.100)$\times10^{-2}$	(4.628 0.350 0.110)$\times10^{-3}$	(5.849 0.490 0.019)$\times10^{-2}$
14.25 – 15.14	(6.184 0.120 0.085)$\times10^{-2}$	(3.152 0.280 0.076)$\times10^{-3}$	(5.139 0.490 0.017)$\times10^{-2}$
15.14 – 16.05	(4.984 0.100 0.070)$\times10^{-2}$	(2.939 0.260 0.071)$\times10^{-3}$	(6.150 0.580 0.020)$\times10^{-2}$
16.05 – 17.00	(4.114 0.089 0.058)$\times10^{-2}$	(2.720 0.240 0.067)$\times10^{-3}$	(6.373 0.630 0.021)$\times10^{-2}$
17.00 – 17.98	(3.489 0.079 0.050)$\times10^{-2}$	(2.286 0.210 0.057)$\times10^{-3}$	(6.761 0.680 0.022)$\times10^{-2}$
17.98 – 18.99	(2.980 0.071 0.043)$\times10^{-2}$	(1.942 0.190 0.049)$\times10^{-3}$	(6.334 0.690 0.021)$\times10^{-2}$
18.99 – 20.04	(2.510 0.063 0.037)$\times10^{-2}$	(1.499 0.160 0.038)$\times10^{-3}$	(5.812 0.690 0.020)$\times10^{-2}$
20.04 – 21.13	(2.082 0.056 0.031)$\times10^{-2}$	(1.318 0.150 0.033)$\times10^{-3}$	(5.953 0.750 0.020)$\times10^{-2}$
21.13 – 22.25	(1.773 0.050 0.026)$\times10^{-2}$	(1.259 0.140 0.032)$\times10^{-3}$	(7.182 0.850 0.024)$\times10^{-2}$
22.25 – 23.42	(1.504 0.044 0.023)$\times10^{-2}$	(1.029 0.120 0.026)$\times10^{-3}$	(6.807 0.880 0.023)$\times10^{-2}$
23.42 – 24.62	(1.232 0.038 0.019)$\times10^{-2}$	(9.016 1.100 0.230)$\times10^{-4}$	(7.354 0.970 0.025)$\times10^{-2}$
24.62 – 25.90	(1.132 0.035 0.017)$\times10^{-2}$	(7.517 0.930 0.190)$\times10^{-4}$	(7.260 0.960 0.025)$\times10^{-2}$

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TABLE SM LVI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(8.940\ 0.300\ 0.140)\times10^{-3}$	$(6.810\ 0.850\ 0.170)\times10^{-4}$	$(6.879\ 0.980\ 0.024)\times10^{-2}$
27.25 – 28.68	$(7.486\ 0.260\ 0.120)\times10^{-3}$	$(5.332\ 0.720\ 0.140)\times10^{-4}$	$(7.247\ 1.100\ 0.025)\times10^{-2}$
28.68 – 30.21	$(6.965\ 0.240\ 0.110)\times10^{-3}$	$(4.346\ 0.630\ 0.110)\times10^{-4}$	$(6.713\ 1.000\ 0.023)\times10^{-2}$
30.21 – 31.82	$(5.198\ 0.200\ 0.082)\times10^{-3}$	$(4.605\ 0.620\ 0.120)\times10^{-4}$	$(8.387\ 1.300\ 0.029)\times10^{-2}$
31.82 – 33.53	$(4.215\ 0.170\ 0.067)\times10^{-3}$	$(4.156\ 0.570\ 0.110)\times10^{-4}$	$(9.915\ 1.500\ 0.035)\times10^{-2}$
33.53 – 35.36	$(4.012\ 0.160\ 0.065)\times10^{-3}$	$(3.166\ 0.480\ 0.081)\times10^{-4}$	$(7.922\ 1.300\ 0.029)\times10^{-2}$
35.36 – 37.31	$(3.370\ 0.150\ 0.055)\times10^{-3}$	$(3.344\ 0.470\ 0.086)\times10^{-4}$	$(10.29\ 1.600\ 0.038)\times10^{-2}$
37.31 – 39.39	$(2.770\ 0.130\ 0.046)\times10^{-3}$	$(1.859\ 0.350\ 0.048)\times10^{-4}$	$(6.136\ 1.300\ 0.023)\times10^{-2}$
39.39 – 41.61	$(2.421\ 0.120\ 0.040)\times10^{-3}$	$(1.901\ 0.340\ 0.049)\times10^{-4}$	$(7.762\ 1.600\ 0.030)\times10^{-2}$
41.61 – 44.00	$(1.965\ 0.100\ 0.033)\times10^{-3}$	$(1.548\ 0.300\ 0.040)\times10^{-4}$	$(8.603\ 1.800\ 0.034)\times10^{-2}$
44.00 – 46.57	$(1.549\ 0.087\ 0.026)\times10^{-3}$	$(1.543\ 0.280\ 0.040)\times10^{-4}$	$(9.226\ 1.900\ 0.037)\times10^{-2}$
46.57 – 49.33	$(1.301\ 0.077\ 0.023)\times10^{-3}$	$(1.489\ 0.270\ 0.038)\times10^{-4}$	$(11.95\ 2.400\ 0.050)\times10^{-2}$

TABLE SM LVII: For Bartels Rotation 2483 (August 01, 2015 – August 27, 2015), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.051 0.021 0.018)×10^{1}	(1.566 0.084 0.028)×10^{0}	(14.83 0.890 0.170)×10^{-2}
1.22 – 1.46	(9.674 0.160 0.140)×10^{0}	(1.461 0.062 0.022)×10^{0}	(14.62 0.710 0.160)×10^{-2}
1.46 – 1.72	(8.507 0.110 0.110)×10^{0}	(1.124 0.042 0.016)×10^{0}	(13.02 0.540 0.140)×10^{-2}
1.72 – 2.00	(7.217 0.081 0.081)×10^{0}	(8.048 0.280 0.110)×10^{-1}	(11.33 0.430 0.120)×10^{-2}
2.00 – 2.31	(6.245 0.061 0.062)×10^{0}	(6.075 0.200 0.080)×10^{-1}	(9.585 0.340 0.095)×10^{-2}
2.31 – 2.65	(5.116 0.046 0.047)×10^{0}	(4.601 0.140 0.062)×10^{-1}	(9.154 0.310 0.088)×10^{-2}
2.65 – 3.00	(4.198 0.037 0.037)×10^{0}	(3.523 0.110 0.049)×10^{-1}	(8.491 0.290 0.077)×10^{-2}
3.00 – 3.36	(3.488 0.030 0.031)×10^{0}	(2.864 0.090 0.042)×10^{-1}	(8.278 0.280 0.071)×10^{-2}
3.36 – 3.73	(2.878 0.025 0.026)×10^{0}	(2.101 0.071 0.032)×10^{-1}	(7.287 0.270 0.059)×10^{-2}
3.73 – 4.12	(2.351 0.021 0.021)×10^{0}	(1.711 0.058 0.027)×10^{-1}	(7.336 0.270 0.055)×10^{-2}
4.12 – 4.54	(1.936 0.017 0.018)×10^{0}	(1.266 0.045 0.021)×10^{-1}	(6.511 0.250 0.045)×10^{-2}
4.54 – 5.00	(1.555 0.014 0.015)×10^{0}	(9.866 0.360 0.170)×10^{-2}	(6.457 0.250 0.041)×10^{-2}
5.00 – 5.49	(1.236 0.011 0.012)×10^{0}	(7.777 0.290 0.140)×10^{-2}	(6.224 0.250 0.035)×10^{-2}
5.49 – 6.00	(9.804 0.090 0.100)×10^{-1}	(6.015 0.230 0.110)×10^{-2}	(6.202 0.260 0.031)×10^{-2}
6.00 – 6.54	(7.747 0.074 0.084)×10^{-1}	(4.775 0.190 0.087)×10^{-2}	(6.283 0.270 0.028)×10^{-2}
6.54 – 7.10	(6.206 0.061 0.070)×10^{-1}	(3.940 0.160 0.074)×10^{-2}	(6.507 0.290 0.025)×10^{-2}
7.10 – 7.69	(5.045 0.052 0.058)×10^{-1}	(3.015 0.130 0.058)×10^{-2}	(6.107 0.290 0.022)×10^{-2}
7.69 – 8.30	(3.958 0.044 0.047)×10^{-1}	(2.348 0.110 0.046)×10^{-2}	(6.104 0.310 0.021)×10^{-2}
8.30 – 8.95	(3.140 0.037 0.038)×10^{-1}	(1.823 0.093 0.037)×10^{-2}	(5.818 0.320 0.020)×10^{-2}
8.95 – 9.62	(2.514 0.031 0.031)×10^{-1}	(1.389 0.077 0.029)×10^{-2}	(5.555 0.330 0.018)×10^{-2}
9.62 – 10.32	(2.124 0.028 0.027)×10^{-1}	(1.199 0.069 0.025)×10^{-2}	(5.825 0.360 0.019)×10^{-2}
10.32 – 11.04	(1.671 0.024 0.021)×10^{-1}	(8.918 0.570 0.190)×10^{-3}	(5.746 0.390 0.019)×10^{-2}
11.04 – 11.80	(1.407 0.021 0.018)×10^{-1}	(8.321 0.520 0.180)×10^{-3}	(5.900 0.400 0.019)×10^{-2}
11.80 – 12.59	(1.075 0.017 0.014)×10^{-1}	(6.544 0.440 0.150)×10^{-3}	(6.167 0.450 0.020)×10^{-2}
12.59 – 13.41	(9.197 0.150 0.120)×10^{-2}	(5.370 0.390 0.120)×10^{-3}	(6.015 0.470 0.019)×10^{-2}
13.41 – 14.25	(7.562 0.140 0.100)×10^{-2}	(4.487 0.340 0.110)×10^{-3}	(5.911 0.500 0.019)×10^{-2}
14.25 – 15.14	(6.165 0.120 0.085)×10^{-2}	(3.526 0.290 0.085)×10^{-3}	(6.138 0.540 0.020)×10^{-2}
15.14 – 16.05	(5.075 0.100 0.071)×10^{-2}	(2.821 0.250 0.069)×10^{-3}	(5.649 0.550 0.018)×10^{-2}
16.05 – 17.00	(4.242 0.091 0.060)×10^{-2}	(2.247 0.220 0.055)×10^{-3}	(5.123 0.550 0.017)×10^{-2}
17.00 – 17.98	(3.497 0.080 0.050)×10^{-2}	(1.976 0.200 0.049)×10^{-3}	(5.794 0.640 0.019)×10^{-2}
17.98 – 18.99	(2.948 0.071 0.043)×10^{-2}	(2.083 0.200 0.052)×10^{-3}	(7.170 0.740 0.024)×10^{-2}
18.99 – 20.04	(2.489 0.063 0.036)×10^{-2}	(1.908 0.180 0.048)×10^{-3}	(7.580 0.800 0.025)×10^{-2}
20.04 – 21.13	(2.101 0.056 0.031)×10^{-2}	(1.540 0.160 0.039)×10^{-3}	(7.949 0.870 0.027)×10^{-2}
21.13 – 22.25	(1.707 0.049 0.025)×10^{-2}	(1.201 0.140 0.031)×10^{-3}	(7.955 0.940 0.027)×10^{-2}
22.25 – 23.42	(1.429 0.043 0.021)×10^{-2}	(9.221 1.200 0.240)×10^{-4}	(6.398 0.870 0.022)×10^{-2}
23.42 – 24.62	(1.321 0.040 0.020)×10^{-2}	(9.463 1.100 0.240)×10^{-4}	(7.314 0.940 0.025)×10^{-2}
24.62 – 25.90	(1.105 0.035 0.017)×10^{-2}	(6.490 0.880 0.170)×10^{-4}	(6.595 0.940 0.023)×10^{-2}

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TABLE SM LVII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.139 0.300 0.140)$\times10^{-3}$	(7.733 0.910 0.200)$\times10^{-4}$	(8.730 1.100 0.030)$\times10^{-2}$
27.25 – 28.68	(7.536 0.260 0.120)$\times10^{-3}$	(5.406 0.720 0.140)$\times10^{-4}$	(7.413 1.100 0.026)$\times10^{-2}$
28.68 – 30.21	(6.421 0.230 0.100)$\times10^{-3}$	(6.234 0.750 0.160)$\times10^{-4}$	(9.928 1.300 0.034)$\times10^{-2}$
30.21 – 31.82	(5.514 0.210 0.087)$\times10^{-3}$	(3.391 0.540 0.087)$\times10^{-4}$	(6.434 1.100 0.023)$\times10^{-2}$
31.82 – 33.53	(4.802 0.190 0.077)$\times10^{-3}$	(3.719 0.540 0.095)$\times10^{-4}$	(8.398 1.300 0.030)$\times10^{-2}$
33.53 – 35.36	(4.061 0.170 0.066)$\times10^{-3}$	(3.430 0.500 0.088)$\times10^{-4}$	(8.257 1.300 0.030)$\times10^{-2}$
35.36 – 37.31	(3.354 0.150 0.055)$\times10^{-3}$	(3.021 0.460 0.077)$\times10^{-4}$	(9.597 1.600 0.035)$\times10^{-2}$
37.31 – 39.39	(2.811 0.130 0.047)$\times10^{-3}$	(2.231 0.380 0.057)$\times10^{-4}$	(8.121 1.500 0.030)$\times10^{-2}$
39.39 – 41.61	(2.162 0.110 0.036)$\times10^{-3}$	(1.752 0.330 0.045)$\times10^{-4}$	(7.888 1.700 0.030)$\times10^{-2}$
41.61 – 44.00	(1.960 0.100 0.033)$\times10^{-3}$	(1.758 0.310 0.045)$\times10^{-4}$	(8.688 1.800 0.034)$\times10^{-2}$
44.00 – 46.57	(1.690 0.091 0.029)$\times10^{-3}$	(1.132 0.240 0.029)$\times10^{-4}$	(7.361 1.700 0.030)$\times10^{-2}$
46.57 – 49.33	(1.569 0.085 0.027)$\times10^{-3}$	(1.361 0.260 0.035)$\times10^{-4}$	(9.153 1.900 0.039)$\times10^{-2}$

TABLE SM LVIII: For Bartels Rotation 2484 (August 28, 2015 – September 23, 2015), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.061 0.021 0.018)$\times10^{1}$	(1.653 0.087 0.030)$\times10^{0}$	(15.39 0.910 0.170)$\times10^{-2}$
1.22 – 1.46	(9.643 0.160 0.140)$\times10^{0}$	(1.277 0.060 0.020)$\times10^{0}$	(13.50 0.690 0.150)$\times10^{-2}$
1.46 – 1.72	(8.634 0.120 0.110)$\times10^{0}$	(1.000 0.041 0.014)$\times10^{0}$	(11.76 0.530 0.120)$\times10^{-2}$
1.72 – 2.00	(7.370 0.086 0.083)$\times10^{0}$	(7.601 0.280 0.100)$\times10^{-1}$	(10.30 0.420 0.110)$\times10^{-2}$
2.00 – 2.31	(6.296 0.064 0.063)$\times10^{0}$	(6.028 0.200 0.080)$\times10^{-1}$	(9.323 0.350 0.093)$\times10^{-2}$
2.31 – 2.65	(5.236 0.049 0.048)$\times10^{0}$	(4.710 0.150 0.063)$\times10^{-1}$	(8.969 0.320 0.086)$\times10^{-2}$
2.65 – 3.00	(4.232 0.038 0.038)$\times10^{0}$	(3.519 0.110 0.049)$\times10^{-1}$	(8.341 0.300 0.076)$\times10^{-2}$
3.00 – 3.36	(3.577 0.032 0.032)$\times10^{0}$	(2.578 0.089 0.038)$\times10^{-1}$	(7.234 0.270 0.062)$\times10^{-2}$
3.36 – 3.73	(2.870 0.026 0.026)$\times10^{0}$	(1.976 0.071 0.030)$\times10^{-1}$	(7.050 0.270 0.057)$\times10^{-2}$
3.73 – 4.12	(2.358 0.021 0.021)$\times10^{0}$	(1.553 0.057 0.025)$\times10^{-1}$	(6.689 0.260 0.050)$\times10^{-2}$
4.12 – 4.54	(1.926 0.017 0.018)$\times10^{0}$	(1.305 0.047 0.021)$\times10^{-1}$	(7.020 0.270 0.049)$\times10^{-2}$
4.54 – 5.00	(1.547 0.014 0.015)$\times10^{0}$	(9.576 0.360 0.160)$\times10^{-2}$	(6.195 0.250 0.039)$\times10^{-2}$
5.00 – 5.49	(1.223 0.011 0.012)$\times10^{0}$	(7.737 0.290 0.130)$\times10^{-2}$	(6.428 0.260 0.036)$\times10^{-2}$
5.49 – 6.00	(9.800 0.092 0.100)$\times10^{-1}$	(6.223 0.240 0.110)$\times10^{-2}$	(6.413 0.270 0.032)$\times10^{-2}$
6.00 – 6.54	(7.779 0.075 0.085)$\times10^{-1}$	(4.419 0.190 0.081)$\times10^{-2}$	(5.773 0.260 0.026)$\times10^{-2}$
6.54 – 7.10	(6.271 0.062 0.071)$\times10^{-1}$	(3.315 0.150 0.062)$\times10^{-2}$	(5.413 0.260 0.021)$\times10^{-2}$
7.10 – 7.69	(4.899 0.052 0.057)$\times10^{-1}$	(3.018 0.130 0.058)$\times10^{-2}$	(6.063 0.290 0.022)$\times10^{-2}$
7.69 – 8.30	(3.960 0.044 0.047)$\times10^{-1}$	(2.238 0.110 0.044)$\times10^{-2}$	(5.792 0.300 0.020)$\times10^{-2}$
8.30 – 8.95	(3.102 0.037 0.038)$\times10^{-1}$	(1.851 0.094 0.037)$\times10^{-2}$	(5.798 0.320 0.020)$\times10^{-2}$
8.95 – 9.62	(2.557 0.032 0.032)$\times10^{-1}$	(1.583 0.083 0.033)$\times10^{-2}$	(6.470 0.360 0.022)$\times10^{-2}$
9.62 – 10.32	(2.095 0.028 0.026)$\times10^{-1}$	(1.222 0.070 0.026)$\times10^{-2}$	(5.853 0.360 0.019)$\times10^{-2}$
10.32 – 11.04	(1.698 0.024 0.022)$\times10^{-1}$	(9.510 0.590 0.210)$\times10^{-3}$	(5.571 0.370 0.018)$\times10^{-2}$
11.04 – 11.80	(1.341 0.020 0.017)$\times10^{-1}$	(8.323 0.520 0.180)$\times10^{-3}$	(6.421 0.440 0.021)$\times10^{-2}$
11.80 – 12.59	(1.132 0.018 0.015)$\times10^{-1}$	(6.862 0.460 0.160)$\times10^{-3}$	(5.917 0.440 0.019)$\times10^{-2}$
12.59 – 13.41	(9.281 0.160 0.120)$\times10^{-2}$	(5.333 0.390 0.120)$\times10^{-3}$	(5.949 0.470 0.019)$\times10^{-2}$
13.41 – 14.25	(7.458 0.140 0.100)$\times10^{-2}$	(4.481 0.350 0.110)$\times10^{-3}$	(5.715 0.500 0.018)$\times10^{-2}$
14.25 – 15.14	(6.143 0.120 0.085)$\times10^{-2}$	(3.777 0.300 0.091)$\times10^{-3}$	(6.175 0.540 0.020)$\times10^{-2}$
15.14 – 16.05	(5.215 0.110 0.073)$\times10^{-2}$	(3.426 0.280 0.083)$\times10^{-3}$	(6.645 0.600 0.022)$\times10^{-2}$
16.05 – 17.00	(4.045 0.089 0.057)$\times10^{-2}$	(2.232 0.220 0.055)$\times10^{-3}$	(5.471 0.590 0.018)$\times10^{-2}$
17.00 – 17.98	(3.500 0.080 0.050)$\times10^{-2}$	(1.682 0.180 0.042)$\times10^{-3}$	(5.232 0.600 0.017)$\times10^{-2}$
17.98 – 18.99	(2.978 0.072 0.043)$\times10^{-2}$	(1.743 0.180 0.044)$\times10^{-3}$	(5.810 0.660 0.019)$\times10^{-2}$
18.99 – 20.04	(2.458 0.063 0.036)$\times10^{-2}$	(1.421 0.160 0.036)$\times10^{-3}$	(5.382 0.680 0.018)$\times10^{-2}$
20.04 – 21.13	(2.154 0.057 0.032)$\times10^{-2}$	(1.629 0.160 0.041)$\times10^{-3}$	(7.640 0.850 0.026)$\times10^{-2}$
21.13 – 22.25	(1.801 0.050 0.027)$\times10^{-2}$	(1.136 0.130 0.029)$\times10^{-3}$	(5.512 0.760 0.019)$\times10^{-2}$
22.25 – 23.42	(1.442 0.043 0.022)$\times10^{-2}$	(8.981 1.100 0.230)$\times10^{-4}$	(5.829 0.840 0.020)$\times10^{-2}$
23.42 – 24.62	(1.239 0.039 0.019)$\times10^{-2}$	(9.446 1.100 0.240)$\times10^{-4}$	(8.127 1.000 0.028)$\times10^{-2}$
24.62 – 25.90	(1.141 0.035 0.017)$\times10^{-2}$	(8.134 0.980 0.210)$\times10^{-4}$	(6.893 0.940 0.024)$\times10^{-2}$

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TABLE SM LVIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.130\ 0.300\ 0.140)\times10^{-3}$	$(8.907\ 0.970\ 0.230)\times10^{-4}$	$(9.741\ 1.200\ 0.033)\times10^{-2}$
27.25 – 28.68	$(7.645\ 0.270\ 0.120)\times10^{-3}$	$(5.496\ 0.750\ 0.140)\times10^{-4}$	$(7.396\ 1.100\ 0.026)\times10^{-2}$
28.68 – 30.21	$(6.261\ 0.230\ 0.098)\times10^{-3}$	$(4.800\ 0.660\ 0.120)\times10^{-4}$	$(7.537\ 1.200\ 0.026)\times10^{-2}$
30.21 – 31.82	$(5.636\ 0.210\ 0.089)\times10^{-3}$	$(3.628\ 0.560\ 0.093)\times10^{-4}$	$(7.061\ 1.200\ 0.025)\times10^{-2}$
31.82 – 33.53	$(4.519\ 0.180\ 0.072)\times10^{-3}$	$(2.862\ 0.490\ 0.073)\times10^{-4}$	$(5.553\ 1.100\ 0.020)\times10^{-2}$
33.53 – 35.36	$(4.047\ 0.170\ 0.065)\times10^{-3}$	$(3.004\ 0.470\ 0.077)\times10^{-4}$	$(7.355\ 1.300\ 0.026)\times10^{-2}$
35.36 – 37.31	$(3.301\ 0.150\ 0.054)\times10^{-3}$	$(1.390\ 0.310\ 0.036)\times10^{-4}$	$(4.658\ 1.100\ 0.017)\times10^{-2}$
37.31 – 39.39	$(2.461\ 0.120\ 0.041)\times10^{-3}$	$(2.347\ 0.390\ 0.060)\times10^{-4}$	$(10.40\ 1.900\ 0.039)\times10^{-2}$
39.39 – 41.61	$(2.252\ 0.110\ 0.038)\times10^{-3}$	$(2.438\ 0.380\ 0.062)\times10^{-4}$	$(10.96\ 1.900\ 0.042)\times10^{-2}$
41.61 – 44.00	$(1.877\ 0.100\ 0.032)\times10^{-3}$	$(1.876\ 0.330\ 0.048)\times10^{-4}$	$(8.948\ 1.800\ 0.035)\times10^{-2}$
44.00 – 46.57	$(1.587\ 0.089\ 0.027)\times10^{-3}$	$(1.293\ 0.270\ 0.033)\times10^{-4}$	$(7.858\ 1.800\ 0.032)\times10^{-2}$
46.57 – 49.33	$(1.449\ 0.082\ 0.025)\times10^{-3}$	$(1.464\ 0.270\ 0.038)\times10^{-4}$	$(9.376\ 2.000\ 0.039)\times10^{-2}$

TABLE SM LIX: For Bartels Rotation 2485 (September 24, 2015 – October 20, 2015), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.068 0.022 0.018)$\times10^{1}$	(1.620 0.087 0.029)$\times10^{0}$	(15.21 0.910 0.170)$\times10^{-2}$
1.22 – 1.46	(1.018 0.016 0.015)$\times10^{1}$	(1.410 0.063 0.022)$\times10^{0}$	(13.96 0.690 0.150)$\times10^{-2}$
1.46 – 1.72	(8.916 0.120 0.110)$\times10^{0}$	(1.088 0.042 0.015)$\times10^{0}$	(12.25 0.530 0.130)$\times10^{-2}$
1.72 – 2.00	(7.562 0.085 0.085)$\times10^{0}$	(8.090 0.290 0.110)$\times10^{-1}$	(10.58 0.410 0.110)$\times10^{-2}$
2.00 – 2.31	(6.410 0.063 0.064)$\times10^{0}$	(5.999 0.200 0.079)$\times10^{-1}$	(9.026 0.330 0.090)$\times10^{-2}$
2.31 – 2.65	(5.379 0.048 0.049)$\times10^{0}$	(4.635 0.150 0.062)$\times10^{-1}$	(8.727 0.300 0.084)$\times10^{-2}$
2.65 – 3.00	(4.401 0.038 0.039)$\times10^{0}$	(3.605 0.110 0.050)$\times10^{-1}$	(8.256 0.280 0.075)$\times10^{-2}$
3.00 – 3.36	(3.636 0.031 0.032)$\times10^{0}$	(2.631 0.088 0.039)$\times10^{-1}$	(7.087 0.260 0.061)$\times10^{-2}$
3.36 – 3.73	(2.964 0.026 0.026)$\times10^{0}$	(2.188 0.073 0.033)$\times10^{-1}$	(7.202 0.260 0.058)$\times10^{-2}$
3.73 – 4.12	(2.390 0.021 0.022)$\times10^{0}$	(1.704 0.058 0.027)$\times10^{-1}$	(7.218 0.270 0.054)$\times10^{-2}$
4.12 – 4.54	(1.978 0.017 0.018)$\times10^{0}$	(1.211 0.045 0.020)$\times10^{-1}$	(6.093 0.240 0.042)$\times10^{-2}$
4.54 – 5.00	(1.546 0.014 0.015)$\times10^{0}$	(9.759 0.360 0.170)$\times10^{-2}$	(6.310 0.250 0.040)$\times10^{-2}$
5.00 – 5.49	(1.236 0.011 0.012)$\times10^{0}$	(7.599 0.290 0.130)$\times10^{-2}$	(6.223 0.250 0.035)$\times10^{-2}$
5.49 – 6.00	(1.005 0.009 0.010)$\times10^{0}$	(5.814 0.230 0.100)$\times10^{-2}$	(5.790 0.250 0.029)$\times10^{-2}$
6.00 – 6.54	(7.961 0.075 0.087)$\times10^{-1}$	(4.562 0.190 0.083)$\times10^{-2}$	(6.124 0.260 0.027)$\times10^{-2}$
6.54 – 7.10	(6.317 0.062 0.071)$\times10^{-1}$	(3.695 0.160 0.069)$\times10^{-2}$	(5.875 0.270 0.023)$\times10^{-2}$
7.10 – 7.69	(4.939 0.051 0.057)$\times10^{-1}$	(2.712 0.130 0.052)$\times10^{-2}$	(5.474 0.270 0.019)$\times10^{-2}$
7.69 – 8.30	(4.099 0.044 0.049)$\times10^{-1}$	(2.503 0.120 0.049)$\times10^{-2}$	(6.288 0.310 0.022)$\times10^{-2}$
8.30 – 8.95	(3.111 0.036 0.038)$\times10^{-1}$	(1.609 0.087 0.032)$\times10^{-2}$	(5.419 0.310 0.018)$\times10^{-2}$
8.95 – 9.62	(2.647 0.032 0.033)$\times10^{-1}$	(1.241 0.073 0.026)$\times10^{-2}$	(4.715 0.300 0.016)$\times10^{-2}$
9.62 – 10.32	(2.044 0.027 0.026)$\times10^{-1}$	(1.252 0.070 0.026)$\times10^{-2}$	(6.330 0.380 0.021)$\times10^{-2}$
10.32 – 11.04	(1.686 0.024 0.022)$\times10^{-1}$	(9.918 0.590 0.210)$\times10^{-3}$	(5.649 0.380 0.018)$\times10^{-2}$
11.04 – 11.80	(1.376 0.020 0.018)$\times10^{-1}$	(7.721 0.500 0.170)$\times10^{-3}$	(5.828 0.410 0.019)$\times10^{-2}$
11.80 – 12.59	(1.133 0.018 0.015)$\times10^{-1}$	(6.144 0.430 0.140)$\times10^{-3}$	(5.324 0.410 0.017)$\times10^{-2}$
12.59 – 13.41	(9.055 0.150 0.120)$\times10^{-2}$	(4.673 0.360 0.110)$\times10^{-3}$	(5.363 0.440 0.017)$\times10^{-2}$
13.41 – 14.25	(7.515 0.140 0.100)$\times10^{-2}$	(4.386 0.340 0.100)$\times10^{-3}$	(5.781 0.490 0.019)$\times10^{-2}$
14.25 – 15.14	(6.209 0.120 0.086)$\times10^{-2}$	(4.269 0.320 0.100)$\times10^{-3}$	(6.491 0.550 0.021)$\times10^{-2}$
15.14 – 16.05	(5.152 0.100 0.072)$\times10^{-2}$	(3.170 0.270 0.077)$\times10^{-3}$	(6.123 0.570 0.020)$\times10^{-2}$
16.05 – 17.00	(4.189 0.090 0.059)$\times10^{-2}$	(3.322 0.260 0.082)$\times10^{-3}$	(8.679 0.730 0.028)$\times10^{-2}$
17.00 – 17.98	(3.483 0.080 0.050)$\times10^{-2}$	(2.258 0.210 0.056)$\times10^{-3}$	(6.284 0.660 0.021)$\times10^{-2}$
17.98 – 18.99	(2.918 0.071 0.042)$\times10^{-2}$	(1.960 0.190 0.049)$\times10^{-3}$	(6.667 0.710 0.022)$\times10^{-2}$
18.99 – 20.04	(2.502 0.063 0.037)$\times10^{-2}$	(1.519 0.160 0.038)$\times10^{-3}$	(6.118 0.710 0.021)$\times10^{-2}$
20.04 – 21.13	(2.090 0.056 0.031)$\times10^{-2}$	(1.140 0.140 0.029)$\times10^{-3}$	(6.241 0.760 0.021)$\times10^{-2}$
21.13 – 22.25	(1.749 0.049 0.026)$\times10^{-2}$	(1.239 0.140 0.032)$\times10^{-3}$	(7.071 0.870 0.024)$\times10^{-2}$
22.25 – 23.42	(1.506 0.044 0.023)$\times10^{-2}$	(1.120 0.120 0.029)$\times10^{-3}$	(7.395 0.910 0.025)$\times10^{-2}$
23.42 – 24.62	(1.271 0.039 0.019)$\times10^{-2}$	(8.628 1.100 0.220)$\times10^{-4}$	(6.830 0.920 0.023)$\times10^{-2}$
24.62 – 25.90	(1.084 0.034 0.017)$\times10^{-2}$	(7.585 0.950 0.190)$\times10^{-4}$	(6.305 0.910 0.022)$\times10^{-2}$

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TABLE SM LIX – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(8.592\ 0.290\ 0.130)\times10^{-3}$	$(6.650\ 0.840\ 0.170)\times10^{-4}$	$(8.227\ 1.100\ 0.028)\times10^{-2}$
27.25 – 28.68	$(7.745\ 0.270\ 0.120)\times10^{-3}$	$(5.967\ 0.760\ 0.150)\times10^{-4}$	$(7.058\ 1.100\ 0.024)\times10^{-2}$
28.68 – 30.21	$(6.265\ 0.230\ 0.098)\times10^{-3}$	$(4.571\ 0.640\ 0.120)\times10^{-4}$	$(8.180\ 1.200\ 0.028)\times10^{-2}$
30.21 – 31.82	$(5.523\ 0.210\ 0.087)\times10^{-3}$	$(4.024\ 0.590\ 0.100)\times10^{-4}$	$(7.411\ 1.200\ 0.026)\times10^{-2}$
31.82 – 33.53	$(4.569\ 0.180\ 0.073)\times10^{-3}$	$(3.117\ 0.490\ 0.080)\times10^{-4}$	$(7.599\ 1.300\ 0.027)\times10^{-2}$
33.53 – 35.36	$(3.686\ 0.160\ 0.060)\times10^{-3}$	$(3.167\ 0.480\ 0.081)\times10^{-4}$	$(8.651\ 1.500\ 0.031)\times10^{-2}$
35.36 – 37.31	$(3.455\ 0.150\ 0.056)\times10^{-3}$	$(3.189\ 0.470\ 0.082)\times10^{-4}$	$(9.169\ 1.500\ 0.034)\times10^{-2}$
37.31 – 39.39	$(2.664\ 0.130\ 0.044)\times10^{-3}$	$(1.795\ 0.330\ 0.046)\times10^{-4}$	$(6.894\ 1.400\ 0.026)\times10^{-2}$
39.39 – 41.61	$(2.556\ 0.120\ 0.043)\times10^{-3}$	$(1.371\ 0.290\ 0.035)\times10^{-4}$	$(5.636\ 1.300\ 0.022)\times10^{-2}$
41.61 – 44.00	$(2.126\ 0.110\ 0.036)\times10^{-3}$	$(1.732\ 0.310\ 0.044)\times10^{-4}$	$(9.691\ 1.800\ 0.038)\times10^{-2}$
44.00 – 46.57	$(1.645\ 0.090\ 0.028)\times10^{-3}$	$(1.592\ 0.290\ 0.041)\times10^{-4}$	$(9.782\ 2.000\ 0.040)\times10^{-2}$
46.57 – 49.33	$(1.220\ 0.075\ 0.021)\times10^{-3}$	$(1.278\ 0.250\ 0.033)\times10^{-4}$	$(10.77\ 2.300\ 0.045)\times10^{-2}$

TABLE SM LX: For Bartels Rotation 2486 (October 21, 2015 – November 16, 2015), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.167 0.022 0.020)×10^{1}	(1.769 0.090 0.032)×10^{0}	(15.05 0.860 0.170)×10^{-2}
1.22 – 1.46	(1.057 0.017 0.015)×10^{1}	(1.357 0.061 0.021)×10^{0}	(12.91 0.640 0.140)×10^{-2}
1.46 – 1.72	(9.180 0.120 0.120)×10^{0}	(1.076 0.042 0.015)×10^{0}	(11.69 0.500 0.120)×10^{-2}
1.72 – 2.00	(7.700 0.085 0.087)×10^{0}	(8.641 0.290 0.120)×10^{-1}	(11.16 0.420 0.110)×10^{-2}
2.00 – 2.31	(6.619 0.064 0.066)×10^{0}	(6.341 0.200 0.084)×10^{-1}	(9.549 0.340 0.095)×10^{-2}
2.31 – 2.65	(5.588 0.049 0.051)×10^{0}	(4.771 0.150 0.064)×10^{-1}	(8.478 0.290 0.081)×10^{-2}
2.65 – 3.00	(4.470 0.038 0.040)×10^{0}	(3.731 0.110 0.052)×10^{-1}	(8.531 0.290 0.078)×10^{-2}
3.00 – 3.36	(3.754 0.032 0.033)×10^{0}	(2.795 0.090 0.041)×10^{-1}	(7.547 0.260 0.065)×10^{-2}
3.36 – 3.73	(2.955 0.026 0.026)×10^{0}	(2.131 0.072 0.032)×10^{-1}	(7.265 0.260 0.059)×10^{-2}
3.73 – 4.12	(2.428 0.021 0.022)×10^{0}	(1.691 0.058 0.027)×10^{-1}	(6.936 0.260 0.052)×10^{-2}
4.12 – 4.54	(1.974 0.017 0.018)×10^{0}	(1.336 0.047 0.022)×10^{-1}	(6.908 0.260 0.048)×10^{-2}
4.54 – 5.00	(1.572 0.014 0.015)×10^{0}	(1.012 0.037 0.017)×10^{-1}	(6.663 0.260 0.042)×10^{-2}
5.00 – 5.49	(1.261 0.011 0.013)×10^{0}	(7.632 0.290 0.130)×10^{-2}	(6.159 0.250 0.035)×10^{-2}
5.49 – 6.00	(9.963 0.091 0.100)×10^{-1}	(5.831 0.230 0.100)×10^{-2}	(5.605 0.240 0.028)×10^{-2}
6.00 – 6.54	(8.063 0.075 0.088)×10^{-1}	(4.722 0.190 0.086)×10^{-2}	(5.891 0.260 0.026)×10^{-2}
6.54 – 7.10	(6.367 0.062 0.072)×10^{-1}	(3.579 0.150 0.067)×10^{-2}	(5.687 0.260 0.022)×10^{-2}
7.10 – 7.69	(4.983 0.052 0.058)×10^{-1}	(2.779 0.130 0.053)×10^{-2}	(5.849 0.280 0.021)×10^{-2}
7.69 – 8.30	(4.090 0.044 0.049)×10^{-1}	(2.278 0.110 0.045)×10^{-2}	(5.360 0.280 0.019)×10^{-2}
8.30 – 8.95	(3.203 0.037 0.039)×10^{-1}	(1.855 0.093 0.037)×10^{-2}	(5.411 0.300 0.018)×10^{-2}
8.95 – 9.62	(2.509 0.031 0.031)×10^{-1}	(1.493 0.081 0.031)×10^{-2}	(5.976 0.350 0.020)×10^{-2}
9.62 – 10.32	(2.079 0.027 0.026)×10^{-1}	(1.248 0.070 0.026)×10^{-2}	(6.073 0.360 0.020)×10^{-2}
10.32 – 11.04	(1.690 0.024 0.022)×10^{-1}	(1.006 0.060 0.022)×10^{-2}	(5.907 0.380 0.019)×10^{-2}
11.04 – 11.80	(1.339 0.020 0.017)×10^{-1}	(8.318 0.520 0.180)×10^{-3}	(6.137 0.420 0.020)×10^{-2}
11.80 – 12.59	(1.143 0.018 0.015)×10^{-1}	(6.649 0.450 0.150)×10^{-3}	(6.059 0.440 0.019)×10^{-2}
12.59 – 13.41	(9.187 0.150 0.120)×10^{-2}	(5.409 0.390 0.130)×10^{-3}	(6.075 0.470 0.019)×10^{-2}
13.41 – 14.25	(7.662 0.140 0.100)×10^{-2}	(4.393 0.340 0.100)×10^{-3}	(5.799 0.490 0.019)×10^{-2}
14.25 – 15.14	(6.154 0.120 0.085)×10^{-2}	(3.420 0.290 0.082)×10^{-3}	(6.006 0.530 0.019)×10^{-2}
15.14 – 16.05	(5.015 0.100 0.070)×10^{-2}	(3.146 0.270 0.077)×10^{-3}	(6.393 0.590 0.021)×10^{-2}
16.05 – 17.00	(4.230 0.091 0.060)×10^{-2}	(2.431 0.220 0.060)×10^{-3}	(5.576 0.580 0.018)×10^{-2}
17.00 – 17.98	(3.491 0.080 0.050)×10^{-2}	(2.045 0.200 0.051)×10^{-3}	(5.489 0.610 0.018)×10^{-2}
17.98 – 18.99	(3.004 0.072 0.043)×10^{-2}	(1.622 0.170 0.041)×10^{-3}	(4.948 0.600 0.017)×10^{-2}
18.99 – 20.04	(2.496 0.063 0.036)×10^{-2}	(1.405 0.160 0.035)×10^{-3}	(5.789 0.690 0.019)×10^{-2}
20.04 – 21.13	(2.015 0.055 0.030)×10^{-2}	(1.403 0.150 0.036)×10^{-3}	(6.479 0.790 0.022)×10^{-2}
21.13 – 22.25	(1.740 0.049 0.026)×10^{-2}	(1.158 0.130 0.030)×10^{-3}	(7.353 0.890 0.025)×10^{-2}
22.25 – 23.42	(1.502 0.044 0.023)×10^{-2}	(8.881 1.100 0.230)×10^{-4}	(6.947 0.890 0.024)×10^{-2}
23.42 – 24.62	(1.235 0.038 0.019)×10^{-2}	(8.121 1.000 0.210)×10^{-4}	(6.404 0.900 0.022)×10^{-2}
24.62 – 25.90	(1.020 0.033 0.016)×10^{-2}	(6.741 0.900 0.170)×10^{-4}	(6.056 0.930 0.021)×10^{-2}

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TABLE SM LX – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.335 0.300 0.140)$\times10^{-3}$	(5.194 0.750 0.130)$\times10^{-4}$	(6.104 0.930 0.021)$\times10^{-2}$
27.25 – 28.68	(8.148 0.270 0.130)$\times10^{-3}$	(5.682 0.750 0.150)$\times10^{-4}$	(7.114 1.000 0.025)$\times10^{-2}$
28.68 – 30.21	(6.454 0.230 0.100)$\times10^{-3}$	(5.691 0.710 0.150)$\times10^{-4}$	(8.636 1.200 0.030)$\times10^{-2}$
30.21 – 31.82	(5.246 0.200 0.083)$\times10^{-3}$	(4.853 0.640 0.120)$\times10^{-4}$	(9.573 1.400 0.034)$\times10^{-2}$
31.82 – 33.53	(4.807 0.190 0.077)$\times10^{-3}$	(2.915 0.490 0.075)$\times10^{-4}$	(6.534 1.200 0.023)$\times10^{-2}$
33.53 – 35.36	(3.877 0.160 0.063)$\times10^{-3}$	(3.187 0.480 0.082)$\times10^{-4}$	(8.024 1.400 0.029)$\times10^{-2}$
35.36 – 37.31	(2.996 0.140 0.049)$\times10^{-3}$	(2.536 0.410 0.065)$\times10^{-4}$	(7.510 1.500 0.028)$\times10^{-2}$
37.31 – 39.39	(2.805 0.130 0.046)$\times10^{-3}$	(1.947 0.360 0.050)$\times10^{-4}$	(6.375 1.400 0.024)$\times10^{-2}$
39.39 – 41.61	(2.416 0.120 0.040)$\times10^{-3}$	(1.981 0.350 0.051)$\times10^{-4}$	(8.558 1.600 0.033)$\times10^{-2}$
41.61 – 44.00	(1.856 0.099 0.031)$\times10^{-3}$	(1.683 0.310 0.043)$\times10^{-4}$	(9.239 1.900 0.036)$\times10^{-2}$
44.00 – 46.57	(1.587 0.088 0.027)$\times10^{-3}$	(1.524 0.280 0.039)$\times10^{-4}$	(9.741 2.000 0.040)$\times10^{-2}$
46.57 – 49.33	(1.475 0.083 0.026)$\times10^{-3}$	(1.359 0.260 0.035)$\times10^{-4}$	(9.964 2.000 0.042)$\times10^{-2}$

TABLE SM LXI: For Bartels Rotation 2487 (November 17, 2015 – December 13, 2015), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.212 0.022 0.021)×10^{1}	(2.053 0.095 0.037)×10^{0}	(16.74 0.870 0.190)×10^{-2}
1.22 – 1.46	(1.128 0.017 0.016)×10^{1}	(1.549 0.064 0.024)×10^{0}	(13.55 0.620 0.150)×10^{-2}
1.46 – 1.72	(9.774 0.120 0.120)×10^{0}	(1.249 0.043 0.017)×10^{0}	(12.89 0.490 0.140)×10^{-2}
1.72 – 2.00	(8.177 0.084 0.092)×10^{0}	(8.792 0.280 0.120)×10^{-1}	(10.95 0.390 0.110)×10^{-2}
2.00 – 2.31	(6.971 0.063 0.070)×10^{0}	(7.028 0.210 0.093)×10^{-1}	(10.21 0.330 0.100)×10^{-2}
2.31 – 2.65	(5.701 0.048 0.052)×10^{0}	(5.094 0.150 0.068)×10^{-1}	(8.987 0.280 0.086)×10^{-2}
2.65 – 3.00	(4.630 0.038 0.041)×10^{0}	(3.978 0.120 0.056)×10^{-1}	(8.694 0.280 0.079)×10^{-2}
3.00 – 3.36	(3.804 0.031 0.034)×10^{0}	(2.931 0.090 0.043)×10^{-1}	(7.532 0.250 0.065)×10^{-2}
3.36 – 3.73	(3.103 0.026 0.028)×10^{0}	(2.325 0.073 0.035)×10^{-1}	(7.334 0.250 0.059)×10^{-2}
3.73 – 4.12	(2.498 0.021 0.023)×10^{0}	(1.737 0.058 0.028)×10^{-1}	(7.078 0.250 0.053)×10^{-2}
4.12 – 4.54	(2.018 0.017 0.019)×10^{0}	(1.286 0.045 0.021)×10^{-1}	(6.481 0.240 0.045)×10^{-2}
4.54 – 5.00	(1.607 0.014 0.015)×10^{0}	(1.115 0.038 0.019)×10^{-1}	(6.847 0.250 0.043)×10^{-2}
5.00 – 5.49	(1.304 0.011 0.013)×10^{0}	(7.740 0.290 0.130)×10^{-2}	(5.957 0.240 0.034)×10^{-2}
5.49 – 6.00	(1.020 0.009 0.011)×10^{0}	(6.244 0.240 0.110)×10^{-2}	(6.296 0.250 0.032)×10^{-2}
6.00 – 6.54	(8.015 0.074 0.087)×10^{-1}	(4.702 0.190 0.086)×10^{-2}	(5.963 0.250 0.026)×10^{-2}
6.54 – 7.10	(6.397 0.062 0.072)×10^{-1}	(3.760 0.160 0.070)×10^{-2}	(5.865 0.260 0.023)×10^{-2}
7.10 – 7.69	(5.193 0.052 0.060)×10^{-1}	(2.945 0.130 0.056)×10^{-2}	(5.639 0.270 0.020)×10^{-2}
7.69 – 8.30	(4.125 0.044 0.049)×10^{-1}	(2.420 0.110 0.047)×10^{-2}	(5.987 0.300 0.021)×10^{-2}
8.30 – 8.95	(3.257 0.037 0.039)×10^{-1}	(1.629 0.087 0.033)×10^{-2}	(4.716 0.280 0.016)×10^{-2}
8.95 – 9.62	(2.635 0.032 0.033)×10^{-1}	(1.459 0.079 0.030)×10^{-2}	(5.788 0.330 0.019)×10^{-2}
9.62 – 10.32	(2.123 0.027 0.027)×10^{-1}	(1.282 0.070 0.027)×10^{-2}	(5.999 0.360 0.020)×10^{-2}
10.32 – 11.04	(1.740 0.024 0.022)×10^{-1}	(9.433 0.570 0.200)×10^{-3}	(5.646 0.370 0.018)×10^{-2}
11.04 – 11.80	(1.371 0.020 0.018)×10^{-1}	(8.572 0.520 0.190)×10^{-3}	(6.344 0.420 0.020)×10^{-2}
11.80 – 12.59	(1.143 0.018 0.015)×10^{-1}	(6.783 0.450 0.150)×10^{-3}	(6.030 0.430 0.019)×10^{-2}
12.59 – 13.41	(9.236 0.150 0.120)×10^{-2}	(5.675 0.390 0.130)×10^{-3}	(6.132 0.460 0.020)×10^{-2}
13.41 – 14.25	(7.610 0.130 0.100)×10^{-2}	(4.511 0.340 0.110)×10^{-3}	(5.349 0.460 0.017)×10^{-2}
14.25 – 15.14	(6.291 0.120 0.087)×10^{-2}	(3.380 0.280 0.081)×10^{-3}	(5.276 0.490 0.017)×10^{-2}
15.14 – 16.05	(5.200 0.100 0.073)×10^{-2}	(3.507 0.280 0.085)×10^{-3}	(6.561 0.580 0.021)×10^{-2}
16.05 – 17.00	(4.176 0.089 0.059)×10^{-2}	(2.573 0.230 0.063)×10^{-3}	(6.058 0.600 0.020)×10^{-2}
17.00 – 17.98	(3.653 0.081 0.052)×10^{-2}	(2.045 0.200 0.051)×10^{-3}	(5.346 0.580 0.018)×10^{-2}
17.98 – 18.99	(2.893 0.070 0.042)×10^{-2}	(1.826 0.180 0.046)×10^{-3}	(6.410 0.700 0.021)×10^{-2}
18.99 – 20.04	(2.533 0.063 0.037)×10^{-2}	(1.665 0.170 0.042)×10^{-3}	(6.743 0.740 0.023)×10^{-2}
20.04 – 21.13	(1.973 0.054 0.029)×10^{-2}	(1.175 0.140 0.030)×10^{-3}	(6.641 0.820 0.022)×10^{-2}
21.13 – 22.25	(1.767 0.049 0.026)×10^{-2}	(1.272 0.140 0.032)×10^{-3}	(7.038 0.850 0.024)×10^{-2}
22.25 – 23.42	(1.479 0.043 0.022)×10^{-2}	(8.727 1.100 0.220)×10^{-4}	(6.193 0.850 0.021)×10^{-2}
23.42 – 24.62	(1.280 0.039 0.019)×10^{-2}	(1.046 0.120 0.027)×10^{-3}	(7.962 1.000 0.027)×10^{-2}
24.62 – 25.90	(1.047 0.033 0.016)×10^{-2}	(7.957 0.950 0.200)×10^{-4}	(7.718 1.000 0.026)×10^{-2}

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TABLE SM LXI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(8.976\ 0.300\ 0.140)\times10^{-3}$	$(5.562\ 0.770\ 0.140)\times10^{-4}$	$(6.505\ 0.980\ 0.022)\times10^{-2}$
27.25 – 28.68	$(7.937\ 0.270\ 0.120)\times10^{-3}$	$(4.593\ 0.670\ 0.120)\times10^{-4}$	$(5.899\ 0.950\ 0.020)\times10^{-2}$
28.68 – 30.21	$(6.863\ 0.240\ 0.110)\times10^{-3}$	$(4.792\ 0.660\ 0.120)\times10^{-4}$	$(6.417\ 1.000\ 0.022)\times10^{-2}$
30.21 – 31.82	$(5.786\ 0.210\ 0.092)\times10^{-3}$	$(3.748\ 0.570\ 0.096)\times10^{-4}$	$(5.992\ 1.000\ 0.021)\times10^{-2}$
31.82 – 33.53	$(4.838\ 0.190\ 0.077)\times10^{-3}$	$(3.152\ 0.490\ 0.081)\times10^{-4}$	$(6.379\ 1.100\ 0.023)\times10^{-2}$
33.53 – 35.36	$(4.268\ 0.170\ 0.069)\times10^{-3}$	$(2.908\ 0.460\ 0.075)\times10^{-4}$	$(6.524\ 1.200\ 0.023)\times10^{-2}$
35.36 – 37.31	$(3.477\ 0.150\ 0.057)\times10^{-3}$	$(2.476\ 0.410\ 0.064)\times10^{-4}$	$(6.634\ 1.200\ 0.024)\times10^{-2}$
37.31 – 39.39	$(2.784\ 0.130\ 0.046)\times10^{-3}$	$(2.675\ 0.410\ 0.069)\times10^{-4}$	$(9.802\ 1.700\ 0.037)\times10^{-2}$
39.39 – 41.61	$(2.287\ 0.110\ 0.038)\times10^{-3}$	$(1.788\ 0.330\ 0.046)\times10^{-4}$	$(8.183\ 1.600\ 0.031)\times10^{-2}$
41.61 – 44.00	$(1.882\ 0.099\ 0.032)\times10^{-3}$	$(1.705\ 0.310\ 0.044)\times10^{-4}$	$(9.691\ 1.900\ 0.038)\times10^{-2}$
44.00 – 46.57	$(1.545\ 0.087\ 0.026)\times10^{-3}$	$(1.440\ 0.280\ 0.037)\times10^{-4}$	$(9.284\ 2.000\ 0.038)\times10^{-2}$
46.57 – 49.33	$(1.261\ 0.076\ 0.022)\times10^{-3}$	$(1.443\ 0.270\ 0.037)\times10^{-4}$	$(10.24\ 2.300\ 0.043)\times10^{-2}$

TABLE SM LXII: For Bartels Rotation 2488 (December 14, 2015 – January 09, 2016), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.265 0.023 0.021)×10^{1}	(2.273 0.100 0.041)×10^{0}	(18.06 0.910 0.200)×10^{-2}
1.22 – 1.46	(1.142 0.017 0.017)×10^{1}	(1.698 0.068 0.026)×10^{0}	(15.11 0.670 0.170)×10^{-2}
1.46 – 1.72	(1.005 0.012 0.013)×10^{1}	(1.278 0.045 0.018)×10^{0}	(12.40 0.490 0.130)×10^{-2}
1.72 – 2.00	(8.514 0.089 0.096)×10^{0}	(9.659 0.310 0.130)×10^{-1}	(11.11 0.400 0.110)×10^{-2}
2.00 – 2.31	(7.019 0.065 0.070)×10^{0}	(6.809 0.210 0.090)×10^{-1}	(9.829 0.330 0.098)×10^{-2}
2.31 – 2.65	(5.773 0.050 0.053)×10^{0}	(5.237 0.150 0.070)×10^{-1}	(9.265 0.300 0.089)×10^{-2}
2.65 – 3.00	(4.599 0.039 0.041)×10^{0}	(3.781 0.120 0.053)×10^{-1}	(8.382 0.280 0.076)×10^{-2}
3.00 – 3.36	(3.730 0.032 0.033)×10^{0}	(2.947 0.093 0.043)×10^{-1}	(7.853 0.270 0.068)×10^{-2}
3.36 – 3.73	(3.098 0.026 0.028)×10^{0}	(2.346 0.076 0.036)×10^{-1}	(7.527 0.260 0.061)×10^{-2}
3.73 – 4.12	(2.510 0.022 0.023)×10^{0}	(1.741 0.059 0.028)×10^{-1}	(6.909 0.250 0.052)×10^{-2}
4.12 – 4.54	(2.018 0.018 0.019)×10^{0}	(1.355 0.048 0.022)×10^{-1}	(6.755 0.260 0.047)×10^{-2}
4.54 – 5.00	(1.605 0.014 0.015)×10^{0}	(1.030 0.037 0.017)×10^{-1}	(6.413 0.250 0.041)×10^{-2}
5.00 – 5.49	(1.276 0.011 0.013)×10^{0}	(8.203 0.300 0.140)×10^{-2}	(6.422 0.260 0.036)×10^{-2}
5.49 – 6.00	(1.009 0.009 0.011)×10^{0}	(6.006 0.240 0.110)×10^{-2}	(6.016 0.250 0.030)×10^{-2}
6.00 – 6.54	(7.995 0.075 0.087)×10^{-1}	(5.082 0.200 0.093)×10^{-2}	(6.436 0.270 0.028)×10^{-2}
6.54 – 7.10	(6.386 0.063 0.072)×10^{-1}	(3.551 0.150 0.066)×10^{-2}	(5.704 0.270 0.022)×10^{-2}
7.10 – 7.69	(5.062 0.052 0.059)×10^{-1}	(2.971 0.130 0.057)×10^{-2}	(6.240 0.290 0.022)×10^{-2}
7.69 – 8.30	(4.062 0.044 0.048)×10^{-1}	(2.374 0.110 0.046)×10^{-2}	(5.834 0.300 0.020)×10^{-2}
8.30 – 8.95	(3.159 0.037 0.038)×10^{-1}	(1.891 0.094 0.038)×10^{-2}	(6.048 0.330 0.020)×10^{-2}
8.95 – 9.62	(2.580 0.032 0.032)×10^{-1}	(1.393 0.078 0.029)×10^{-2}	(5.743 0.340 0.019)×10^{-2}
9.62 – 10.32	(2.115 0.028 0.027)×10^{-1}	(1.106 0.066 0.023)×10^{-2}	(5.290 0.340 0.017)×10^{-2}
10.32 – 11.04	(1.730 0.024 0.022)×10^{-1}	(8.891 0.560 0.190)×10^{-3}	(5.321 0.360 0.017)×10^{-2}
11.04 – 11.80	(1.371 0.020 0.018)×10^{-1}	(8.707 0.530 0.190)×10^{-3}	(6.509 0.430 0.021)×10^{-2}
11.80 – 12.59	(1.132 0.018 0.015)×10^{-1}	(6.592 0.450 0.150)×10^{-3}	(6.084 0.450 0.019)×10^{-2}
12.59 – 13.41	(9.397 0.160 0.130)×10^{-2}	(5.528 0.390 0.130)×10^{-3}	(6.254 0.470 0.020)×10^{-2}
13.41 – 14.25	(7.389 0.130 0.100)×10^{-2}	(3.869 0.320 0.091)×10^{-3}	(5.247 0.470 0.017)×10^{-2}
14.25 – 15.14	(5.920 0.110 0.082)×10^{-2}	(3.495 0.290 0.084)×10^{-3}	(6.118 0.550 0.020)×10^{-2}
15.14 – 16.05	(5.226 0.100 0.073)×10^{-2}	(2.883 0.260 0.070)×10^{-3}	(5.737 0.540 0.019)×10^{-2}
16.05 – 17.00	(4.133 0.090 0.058)×10^{-2}	(2.549 0.230 0.063)×10^{-3}	(6.080 0.610 0.020)×10^{-2}
17.00 – 17.98	(3.508 0.080 0.050)×10^{-2}	(2.357 0.220 0.059)×10^{-3}	(7.484 0.720 0.025)×10^{-2}
17.98 – 18.99	(2.970 0.071 0.043)×10^{-2}	(1.870 0.190 0.047)×10^{-3}	(6.312 0.690 0.021)×10^{-2}
18.99 – 20.04	(2.488 0.063 0.036)×10^{-2}	(1.660 0.170 0.042)×10^{-3}	(7.073 0.780 0.024)×10^{-2}
20.04 – 21.13	(1.969 0.054 0.029)×10^{-2}	(1.363 0.150 0.035)×10^{-3}	(7.667 0.880 0.026)×10^{-2}
21.13 – 22.25	(1.818 0.050 0.027)×10^{-2}	(1.106 0.130 0.028)×10^{-3}	(6.173 0.790 0.021)×10^{-2}
22.25 – 23.42	(1.503 0.044 0.023)×10^{-2}	(1.389 0.140 0.036)×10^{-3}	(9.141 1.000 0.031)×10^{-2}
23.42 – 24.62	(1.277 0.039 0.019)×10^{-2}	(9.605 1.100 0.250)×10^{-4}	(7.043 0.940 0.024)×10^{-2}
24.62 – 25.90	(1.127 0.035 0.017)×10^{-2}	(6.672 0.880 0.170)×10^{-4}	(6.174 0.890 0.021)×10^{-2}

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TABLE SM LXII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.095\ 0.300\ 0.140)\times10^{-3}$	$(8.397\ 0.940\ 0.220)\times10^{-4}$	$(9.512\ 1.200\ 0.033)\times10^{-2}$
27.25 – 28.68	$(7.883\ 0.270\ 0.120)\times10^{-3}$	$(5.333\ 0.730\ 0.140)\times10^{-4}$	$(6.653\ 1.000\ 0.023)\times10^{-2}$
28.68 – 30.21	$(6.566\ 0.240\ 0.100)\times10^{-3}$	$(5.775\ 0.730\ 0.150)\times10^{-4}$	$(8.679\ 1.200\ 0.030)\times10^{-2}$
30.21 – 31.82	$(5.690\ 0.210\ 0.090)\times10^{-3}$	$(4.111\ 0.590\ 0.110)\times10^{-4}$	$(6.712\ 1.100\ 0.024)\times10^{-2}$
31.82 – 33.53	$(4.650\ 0.180\ 0.074)\times10^{-3}$	$(2.745\ 0.470\ 0.070)\times10^{-4}$	$(5.971\ 1.100\ 0.021)\times10^{-2}$
33.53 – 35.36	$(3.927\ 0.160\ 0.064)\times10^{-3}$	$(3.202\ 0.480\ 0.082)\times10^{-4}$	$(8.620\ 1.400\ 0.031)\times10^{-2}$
35.36 – 37.31	$(3.540\ 0.150\ 0.058)\times10^{-3}$	$(2.410\ 0.410\ 0.062)\times10^{-4}$	$(6.308\ 1.200\ 0.023)\times10^{-2}$
37.31 – 39.39	$(2.875\ 0.130\ 0.048)\times10^{-3}$	$(2.578\ 0.410\ 0.066)\times10^{-4}$	$(9.299\ 1.600\ 0.035)\times10^{-2}$
39.39 – 41.61	$(2.456\ 0.120\ 0.041)\times10^{-3}$	$(2.007\ 0.350\ 0.051)\times10^{-4}$	$(8.457\ 1.600\ 0.032)\times10^{-2}$
41.61 – 44.00	$(2.081\ 0.100\ 0.035)\times10^{-3}$	$(2.004\ 0.340\ 0.051)\times10^{-4}$	$(10.28\ 1.900\ 0.040)\times10^{-2}$
44.00 – 46.57	$(1.657\ 0.090\ 0.028)\times10^{-3}$	$(1.344\ 0.270\ 0.034)\times10^{-4}$	$(7.992\ 1.800\ 0.032)\times10^{-2}$
46.57 – 49.33	$(1.308\ 0.078\ 0.023)\times10^{-3}$	$(1.521\ 0.270\ 0.039)\times10^{-4}$	$(11.37\ 2.400\ 0.048)\times10^{-2}$

TABLE SM LXIII: For Bartels Rotation 2489 (January 10, 2016 – February 05, 2016), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.326 0.023 0.023)$\times10^{1}$	(2.237 0.100 0.040)$\times10^{0}$	(16.87 0.850 0.190)$\times10^{-2}$
1.22 – 1.46	(1.196 0.017 0.017)$\times10^{1}$	(1.892 0.071 0.029)$\times10^{0}$	(15.74 0.670 0.170)$\times10^{-2}$
1.46 – 1.72	(1.056 0.012 0.013)$\times10^{1}$	(1.371 0.046 0.019)$\times10^{0}$	(12.66 0.480 0.130)$\times10^{-2}$
1.72 – 2.00	(8.760 0.089 0.098)$\times10^{0}$	(9.874 0.310 0.130)$\times10^{-1}$	(11.41 0.390 0.120)$\times10^{-2}$
2.00 – 2.31	(7.419 0.066 0.074)$\times10^{0}$	(7.047 0.210 0.093)$\times10^{-1}$	(9.657 0.310 0.096)$\times10^{-2}$
2.31 – 2.65	(5.981 0.050 0.055)$\times10^{0}$	(5.649 0.160 0.076)$\times10^{-1}$	(9.617 0.290 0.092)$\times10^{-2}$
2.65 – 3.00	(4.905 0.040 0.043)$\times10^{0}$	(4.116 0.120 0.058)$\times10^{-1}$	(8.616 0.270 0.078)$\times10^{-2}$
3.00 – 3.36	(3.901 0.032 0.035)$\times10^{0}$	(3.136 0.094 0.046)$\times10^{-1}$	(8.159 0.270 0.070)$\times10^{-2}$
3.36 – 3.73	(3.153 0.026 0.028)$\times10^{0}$	(2.367 0.075 0.036)$\times10^{-1}$	(7.384 0.260 0.060)$\times10^{-2}$
3.73 – 4.12	(2.600 0.022 0.024)$\times10^{0}$	(1.832 0.060 0.029)$\times10^{-1}$	(7.133 0.250 0.054)$\times10^{-2}$
4.12 – 4.54	(2.079 0.018 0.019)$\times10^{0}$	(1.408 0.048 0.023)$\times10^{-1}$	(6.847 0.250 0.047)$\times10^{-2}$
4.54 – 5.00	(1.651 0.014 0.016)$\times10^{0}$	(1.047 0.037 0.018)$\times10^{-1}$	(6.255 0.240 0.040)$\times10^{-2}$
5.00 – 5.49	(1.315 0.011 0.013)$\times10^{0}$	(8.100 0.300 0.140)$\times10^{-2}$	(6.313 0.250 0.036)$\times10^{-2}$
5.49 – 6.00	(1.045 0.009 0.011)$\times10^{0}$	(6.707 0.250 0.120)$\times10^{-2}$	(6.445 0.250 0.032)$\times10^{-2}$
6.00 – 6.54	(8.267 0.076 0.090)$\times10^{-1}$	(4.825 0.190 0.088)$\times10^{-2}$	(5.822 0.250 0.026)$\times10^{-2}$
6.54 – 7.10	(6.602 0.063 0.074)$\times10^{-1}$	(3.884 0.160 0.072)$\times10^{-2}$	(6.097 0.270 0.023)$\times10^{-2}$
7.10 – 7.69	(5.218 0.052 0.060)$\times10^{-1}$	(3.078 0.130 0.059)$\times10^{-2}$	(6.178 0.280 0.022)$\times10^{-2}$
7.69 – 8.30	(4.107 0.044 0.049)$\times10^{-1}$	(2.412 0.110 0.047)$\times10^{-2}$	(5.953 0.300 0.021)$\times10^{-2}$
8.30 – 8.95	(3.242 0.037 0.039)$\times10^{-1}$	(1.861 0.092 0.037)$\times10^{-2}$	(5.894 0.310 0.020)$\times10^{-2}$
8.95 – 9.62	(2.664 0.032 0.033)$\times10^{-1}$	(1.631 0.083 0.034)$\times10^{-2}$	(5.975 0.330 0.020)$\times10^{-2}$
9.62 – 10.32	(2.102 0.027 0.027)$\times10^{-1}$	(1.399 0.073 0.030)$\times10^{-2}$	(6.805 0.380 0.022)$\times10^{-2}$
10.32 – 11.04	(1.678 0.023 0.022)$\times10^{-1}$	(1.007 0.060 0.022)$\times10^{-2}$	(5.953 0.390 0.019)$\times10^{-2}$
11.04 – 11.80	(1.359 0.020 0.018)$\times10^{-1}$	(8.459 0.530 0.190)$\times10^{-3}$	(6.082 0.420 0.020)$\times10^{-2}$
11.80 – 12.59	(1.119 0.018 0.015)$\times10^{-1}$	(6.807 0.450 0.150)$\times10^{-3}$	(6.130 0.440 0.020)$\times10^{-2}$
12.59 – 13.41	(9.025 0.150 0.120)$\times10^{-2}$	(5.498 0.390 0.130)$\times10^{-3}$	(6.261 0.480 0.020)$\times10^{-2}$
13.41 – 14.25	(7.516 0.130 0.100)$\times10^{-2}$	(4.793 0.350 0.110)$\times10^{-3}$	(6.452 0.520 0.021)$\times10^{-2}$
14.25 – 15.14	(6.522 0.120 0.090)$\times10^{-2}$	(3.966 0.310 0.095)$\times10^{-3}$	(6.380 0.530 0.021)$\times10^{-2}$
15.14 – 16.05	(4.971 0.100 0.069)$\times10^{-2}$	(2.879 0.260 0.070)$\times10^{-3}$	(5.864 0.560 0.019)$\times10^{-2}$
16.05 – 17.00	(4.296 0.091 0.061)$\times10^{-2}$	(2.481 0.230 0.061)$\times10^{-3}$	(6.133 0.600 0.020)$\times10^{-2}$
17.00 – 17.98	(3.583 0.081 0.051)$\times10^{-2}$	(2.097 0.200 0.052)$\times10^{-3}$	(6.147 0.640 0.020)$\times10^{-2}$
17.98 – 18.99	(2.781 0.069 0.040)$\times10^{-2}$	(1.843 0.180 0.046)$\times10^{-3}$	(6.902 0.740 0.023)$\times10^{-2}$
18.99 – 20.04	(2.533 0.063 0.037)$\times10^{-2}$	(1.804 0.170 0.046)$\times10^{-3}$	(7.519 0.790 0.025)$\times10^{-2}$
20.04 – 21.13	(2.066 0.055 0.030)$\times10^{-2}$	(1.902 0.170 0.048)$\times10^{-3}$	(9.296 0.940 0.031)$\times10^{-2}$
21.13 – 22.25	(1.767 0.049 0.026)$\times10^{-2}$	(1.268 0.140 0.032)$\times10^{-3}$	(7.421 0.880 0.025)$\times10^{-2}$
22.25 – 23.42	(1.464 0.043 0.022)$\times10^{-2}$	(1.099 0.120 0.028)$\times10^{-3}$	(7.843 0.950 0.027)$\times10^{-2}$
23.42 – 24.62	(1.286 0.039 0.019)$\times10^{-2}$	(9.446 1.100 0.240)$\times10^{-4}$	(6.499 0.890 0.022)$\times10^{-2}$
24.62 – 25.90	(1.102 0.034 0.017)$\times10^{-2}$	(6.430 0.870 0.170)$\times10^{-4}$	(6.013 0.890 0.021)$\times10^{-2}$

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TABLE SM LXIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.381\ 0.300\ 0.140)\times10^{-3}$	$(8.040\ 0.920\ 0.210)\times10^{-4}$	$(8.496\ 1.100\ 0.029)\times10^{-2}$
27.25 – 28.68	$(7.795\ 0.270\ 0.120)\times10^{-3}$	$(4.906\ 0.700\ 0.130)\times10^{-4}$	$(6.064\ 0.970\ 0.021)\times10^{-2}$
28.68 – 30.21	$(7.016\ 0.240\ 0.110)\times10^{-3}$	$(5.546\ 0.700\ 0.140)\times10^{-4}$	$(7.536\ 1.100\ 0.026)\times10^{-2}$
30.21 – 31.82	$(5.519\ 0.210\ 0.087)\times10^{-3}$	$(3.925\ 0.580\ 0.100)\times10^{-4}$	$(7.359\ 1.200\ 0.026)\times10^{-2}$
31.82 – 33.53	$(4.812\ 0.190\ 0.077)\times10^{-3}$	$(4.304\ 0.580\ 0.110)\times10^{-4}$	$(9.060\ 1.400\ 0.032)\times10^{-2}$
33.53 – 35.36	$(4.058\ 0.160\ 0.066)\times10^{-3}$	$(2.999\ 0.470\ 0.077)\times10^{-4}$	$(8.088\ 1.300\ 0.029)\times10^{-2}$
35.36 – 37.31	$(3.362\ 0.150\ 0.055)\times10^{-3}$	$(3.503\ 0.490\ 0.090)\times10^{-4}$	$(9.962\ 1.600\ 0.036)\times10^{-2}$
37.31 – 39.39	$(2.979\ 0.130\ 0.049)\times10^{-3}$	$(3.306\ 0.460\ 0.085)\times10^{-4}$	$(9.165\ 1.600\ 0.034)\times10^{-2}$
39.39 – 41.61	$(2.322\ 0.110\ 0.039)\times10^{-3}$	$(2.252\ 0.370\ 0.058)\times10^{-4}$	$(10.31\ 1.900\ 0.039)\times10^{-2}$
41.61 – 44.00	$(1.843\ 0.098\ 0.031)\times10^{-3}$	$(9.480\ 2.400\ 0.240)\times10^{-5}$	$(5.585\ 1.500\ 0.022)\times10^{-2}$
44.00 – 46.57	$(1.841\ 0.095\ 0.031)\times10^{-3}$	$(1.724\ 0.300\ 0.044)\times10^{-4}$	$(9.906\ 2.000\ 0.040)\times10^{-2}$
46.57 – 49.33	$(1.343\ 0.078\ 0.023)\times10^{-3}$	$(1.423\ 0.260\ 0.037)\times10^{-4}$	$(11.36\ 2.300\ 0.048)\times10^{-2}$

TABLE SM LXIV: For Bartels Rotation 2490 (February 06, 2016 – March 03, 2016), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.423 0.026 0.024)×10^{1}	(2.412 0.110 0.043)×10^{0}	(17.18 0.880 0.190)×10^{-2}
1.22 – 1.46	(1.221 0.019 0.018)×10^{1}	(1.831 0.074 0.028)×10^{0}	(15.09 0.680 0.170)×10^{-2}
1.46 – 1.72	(1.099 0.013 0.014)×10^{1}	(1.365 0.049 0.019)×10^{0}	(12.48 0.490 0.130)×10^{-2}
1.72 – 2.00	(9.107 0.096 0.100)×10^{0}	(1.022 0.033 0.014)×10^{0}	(11.40 0.410 0.120)×10^{-2}
2.00 – 2.31	(7.646 0.071 0.076)×10^{0}	(6.951 0.220 0.092)×10^{-1}	(8.928 0.310 0.089)×10^{-2}
2.31 – 2.65	(6.163 0.053 0.056)×10^{0}	(5.749 0.170 0.077)×10^{-1}	(9.369 0.300 0.090)×10^{-2}
2.65 – 3.00	(5.030 0.042 0.045)×10^{0}	(4.506 0.130 0.063)×10^{-1}	(9.165 0.290 0.083)×10^{-2}
3.00 – 3.36	(4.130 0.035 0.037)×10^{0}	(3.112 0.099 0.046)×10^{-1}	(7.531 0.260 0.065)×10^{-2}
3.36 – 3.73	(3.265 0.028 0.029)×10^{0}	(2.496 0.080 0.038)×10^{-1}	(7.559 0.270 0.061)×10^{-2}
3.73 – 4.12	(2.643 0.023 0.024)×10^{0}	(1.832 0.063 0.029)×10^{-1}	(6.990 0.260 0.053)×10^{-2}
4.12 – 4.54	(2.120 0.019 0.020)×10^{0}	(1.488 0.051 0.024)×10^{-1}	(7.176 0.270 0.050)×10^{-2}
4.54 – 5.00	(1.680 0.015 0.016)×10^{0}	(1.192 0.041 0.020)×10^{-1}	(7.185 0.270 0.045)×10^{-2}
5.00 – 5.49	(1.325 0.012 0.013)×10^{0}	(8.311 0.310 0.140)×10^{-2}	(6.327 0.260 0.036)×10^{-2}
5.49 – 6.00	(1.041 0.010 0.011)×10^{0}	(6.513 0.250 0.120)×10^{-2}	(6.225 0.260 0.031)×10^{-2}
6.00 – 6.54	(8.349 0.079 0.091)×10^{-1}	(4.843 0.200 0.088)×10^{-2}	(6.252 0.270 0.028)×10^{-2}
6.54 – 7.10	(6.564 0.066 0.074)×10^{-1}	(4.070 0.170 0.076)×10^{-2}	(6.185 0.280 0.024)×10^{-2}
7.10 – 7.69	(5.332 0.055 0.062)×10^{-1}	(2.959 0.140 0.056)×10^{-2}	(5.695 0.280 0.020)×10^{-2}
7.69 – 8.30	(4.171 0.047 0.049)×10^{-1}	(2.305 0.110 0.045)×10^{-2}	(5.646 0.300 0.020)×10^{-2}
8.30 – 8.95	(3.297 0.039 0.040)×10^{-1}	(2.025 0.100 0.041)×10^{-2}	(6.233 0.340 0.021)×10^{-2}
8.95 – 9.62	(2.630 0.033 0.032)×10^{-1}	(1.619 0.087 0.033)×10^{-2}	(6.542 0.370 0.022)×10^{-2}
9.62 – 10.32	(2.102 0.028 0.027)×10^{-1}	(1.282 0.073 0.027)×10^{-2}	(6.020 0.380 0.020)×10^{-2}
10.32 – 11.04	(1.738 0.025 0.022)×10^{-1}	(1.071 0.064 0.023)×10^{-2}	(6.095 0.400 0.020)×10^{-2}
11.04 – 11.80	(1.371 0.021 0.018)×10^{-1}	(8.884 0.560 0.200)×10^{-3}	(6.359 0.440 0.020)×10^{-2}
11.80 – 12.59	(1.113 0.018 0.015)×10^{-1}	(6.253 0.450 0.140)×10^{-3}	(5.715 0.450 0.018)×10^{-2}
12.59 – 13.41	(9.174 0.160 0.120)×10^{-2}	(5.219 0.390 0.120)×10^{-3}	(6.250 0.500 0.020)×10^{-2}
13.41 – 14.25	(7.576 0.140 0.100)×10^{-2}	(4.485 0.360 0.110)×10^{-3}	(6.247 0.530 0.020)×10^{-2}
14.25 – 15.14	(6.165 0.120 0.085)×10^{-2}	(3.924 0.320 0.094)×10^{-3}	(6.343 0.570 0.020)×10^{-2}
15.14 – 16.05	(5.256 0.110 0.073)×10^{-2}	(2.819 0.260 0.069)×10^{-3}	(5.598 0.560 0.018)×10^{-2}
16.05 – 17.00	(4.263 0.094 0.060)×10^{-2}	(2.595 0.240 0.064)×10^{-3}	(6.410 0.640 0.021)×10^{-2}
17.00 – 17.98	(3.572 0.084 0.051)×10^{-2}	(2.237 0.220 0.056)×10^{-3}	(6.038 0.660 0.020)×10^{-2}
17.98 – 18.99	(2.955 0.074 0.043)×10^{-2}	(2.123 0.200 0.053)×10^{-3}	(7.058 0.760 0.024)×10^{-2}
18.99 – 20.04	(2.533 0.066 0.037)×10^{-2}	(1.786 0.180 0.045)×10^{-3}	(7.276 0.810 0.024)×10^{-2}
20.04 – 21.13	(2.069 0.058 0.030)×10^{-2}	(1.524 0.160 0.039)×10^{-3}	(7.725 0.900 0.026)×10^{-2}
21.13 – 22.25	(1.730 0.051 0.026)×10^{-2}	(1.442 0.150 0.037)×10^{-3}	(7.879 0.950 0.027)×10^{-2}
22.25 – 23.42	(1.494 0.045 0.022)×10^{-2}	(1.025 0.120 0.026)×10^{-3}	(6.410 0.890 0.022)×10^{-2}
23.42 – 24.62	(1.229 0.040 0.019)×10^{-2}	(1.143 0.120 0.029)×10^{-3}	(10.10 1.200 0.034)×10^{-2}
24.62 – 25.90	(1.078 0.035 0.016)×10^{-2}	(9.286 1.100 0.240)×10^{-4}	(9.007 1.100 0.031)×10^{-2}

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TABLE SM LXIV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(8.654\ 0.300\ 0.130)\times10^{-3}$	$(5.623\ 0.810\ 0.140)\times10^{-4}$	$(6.016\ 1.000\ 0.021)\times10^{-2}$
27.25 – 28.68	$(7.859\ 0.280\ 0.120)\times10^{-3}$	$(5.432\ 0.770\ 0.140)\times10^{-4}$	$(7.130\ 1.100\ 0.025)\times10^{-2}$
28.68 – 30.21	$(6.649\ 0.250\ 0.100)\times10^{-3}$	$(4.544\ 0.670\ 0.120)\times10^{-4}$	$(7.570\ 1.200\ 0.026)\times10^{-2}$
30.21 – 31.82	$(5.658\ 0.220\ 0.090)\times10^{-3}$	$(4.544\ 0.650\ 0.120)\times10^{-4}$	$(7.669\ 1.200\ 0.027)\times10^{-2}$
31.82 – 33.53	$(4.596\ 0.190\ 0.074)\times10^{-3}$	$(3.500\ 0.550\ 0.090)\times10^{-4}$	$(7.878\ 1.300\ 0.028)\times10^{-2}$
33.53 – 35.36	$(3.731\ 0.160\ 0.060)\times10^{-3}$	$(2.927\ 0.480\ 0.075)\times10^{-4}$	$(7.694\ 1.400\ 0.028)\times10^{-2}$
35.36 – 37.31	$(3.452\ 0.150\ 0.056)\times10^{-3}$	$(2.442\ 0.430\ 0.063)\times10^{-4}$	$(8.411\ 1.500\ 0.031)\times10^{-2}$
37.31 – 39.39	$(2.552\ 0.130\ 0.042)\times10^{-3}$	$(2.139\ 0.390\ 0.055)\times10^{-4}$	$(6.823\ 1.500\ 0.026)\times10^{-2}$
39.39 – 41.61	$(2.447\ 0.120\ 0.041)\times10^{-3}$	$(1.671\ 0.330\ 0.043)\times10^{-4}$	$(7.496\ 1.600\ 0.029)\times10^{-2}$
41.61 – 44.00	$(2.053\ 0.110\ 0.035)\times10^{-3}$	$(1.721\ 0.320\ 0.044)\times10^{-4}$	$(9.550\ 1.900\ 0.038)\times10^{-2}$
44.00 – 46.57	$(1.477\ 0.089\ 0.025)\times10^{-3}$	$(1.322\ 0.280\ 0.034)\times10^{-4}$	$(8.794\ 2.000\ 0.036)\times10^{-2}$
46.57 – 49.33	$(1.451\ 0.085\ 0.025)\times10^{-3}$	$(1.347\ 0.270\ 0.035)\times10^{-4}$	$(11.04\ 2.300\ 0.046)\times10^{-2}$

TABLE SM LXV: For Bartels Rotation 2491 (March 04, 2016 – March 30, 2016), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.482 0.026 0.025)×10^{1}	(2.310 0.100 0.042)×10^{0}	(15.47 0.790 0.180)×10^{-2}
1.22 – 1.46	(1.309 0.019 0.019)×10^{1}	(1.989 0.075 0.030)×10^{0}	(15.16 0.640 0.170)×10^{-2}
1.46 – 1.72	(1.129 0.013 0.014)×10^{1}	(1.519 0.050 0.021)×10^{0}	(13.29 0.490 0.140)×10^{-2}
1.72 – 2.00	(9.191 0.093 0.100)×10^{0}	(1.038 0.032 0.014)×10^{0}	(11.42 0.390 0.120)×10^{-2}
2.00 – 2.31	(7.768 0.069 0.078)×10^{0}	(8.029 0.230 0.110)×10^{-1}	(10.58 0.330 0.110)×10^{-2}
2.31 – 2.65	(6.244 0.052 0.057)×10^{0}	(5.822 0.160 0.078)×10^{-1}	(9.324 0.290 0.089)×10^{-2}
2.65 – 3.00	(4.983 0.041 0.044)×10^{0}	(4.202 0.120 0.059)×10^{-1}	(8.438 0.270 0.077)×10^{-2}
3.00 – 3.36	(4.028 0.033 0.036)×10^{0}	(3.160 0.096 0.046)×10^{-1}	(7.823 0.260 0.067)×10^{-2}
3.36 – 3.73	(3.275 0.027 0.029)×10^{0}	(2.380 0.076 0.036)×10^{-1}	(7.418 0.260 0.060)×10^{-2}
3.73 – 4.12	(2.651 0.022 0.024)×10^{0}	(1.906 0.062 0.030)×10^{-1}	(7.288 0.260 0.055)×10^{-2}
4.12 – 4.54	(2.150 0.018 0.020)×10^{0}	(1.458 0.049 0.024)×10^{-1}	(6.801 0.250 0.047)×10^{-2}
4.54 – 5.00	(1.685 0.014 0.016)×10^{0}	(1.059 0.038 0.018)×10^{-1}	(6.080 0.240 0.038)×10^{-2}
5.00 – 5.49	(1.306 0.012 0.013)×10^{0}	(8.211 0.300 0.140)×10^{-2}	(6.372 0.250 0.036)×10^{-2}
5.49 – 6.00	(1.057 0.009 0.011)×10^{0}	(6.138 0.240 0.110)×10^{-2}	(5.778 0.240 0.029)×10^{-2}
6.00 – 6.54	(8.352 0.077 0.091)×10^{-1}	(4.838 0.190 0.088)×10^{-2}	(5.853 0.250 0.026)×10^{-2}
6.54 – 7.10	(6.463 0.063 0.073)×10^{-1}	(4.074 0.160 0.076)×10^{-2}	(6.492 0.280 0.025)×10^{-2}
7.10 – 7.69	(5.217 0.053 0.060)×10^{-1}	(3.167 0.140 0.060)×10^{-2}	(5.993 0.280 0.021)×10^{-2}
7.69 – 8.30	(4.130 0.045 0.049)×10^{-1}	(2.548 0.120 0.050)×10^{-2}	(6.449 0.310 0.022)×10^{-2}
8.30 – 8.95	(3.273 0.037 0.040)×10^{-1}	(1.905 0.095 0.038)×10^{-2}	(5.809 0.310 0.020)×10^{-2}
8.95 – 9.62	(2.654 0.032 0.033)×10^{-1}	(1.502 0.081 0.031)×10^{-2}	(5.554 0.330 0.018)×10^{-2}
9.62 – 10.32	(2.181 0.028 0.028)×10^{-1}	(1.294 0.072 0.027)×10^{-2}	(5.808 0.350 0.019)×10^{-2}
10.32 – 11.04	(1.708 0.024 0.022)×10^{-1}	(1.071 0.061 0.023)×10^{-2}	(6.135 0.390 0.020)×10^{-2}
11.04 – 11.80	(1.372 0.020 0.018)×10^{-1}	(8.101 0.510 0.180)×10^{-3}	(5.922 0.410 0.019)×10^{-2}
11.80 – 12.59	(1.107 0.018 0.015)×10^{-1}	(6.894 0.460 0.160)×10^{-3}	(6.600 0.470 0.021)×10^{-2}
12.59 – 13.41	(9.422 0.160 0.130)×10^{-2}	(5.587 0.400 0.130)×10^{-3}	(6.160 0.470 0.020)×10^{-2}
13.41 – 14.25	(7.365 0.130 0.100)×10^{-2}	(4.744 0.350 0.110)×10^{-3}	(6.680 0.540 0.021)×10^{-2}
14.25 – 15.14	(6.258 0.120 0.086)×10^{-2}	(3.990 0.310 0.096)×10^{-3}	(6.679 0.560 0.022)×10^{-2}
15.14 – 16.05	(5.017 0.100 0.070)×10^{-2}	(3.520 0.280 0.086)×10^{-3}	(7.477 0.650 0.024)×10^{-2}
16.05 – 17.00	(4.330 0.092 0.061)×10^{-2}	(2.624 0.240 0.065)×10^{-3}	(5.850 0.590 0.019)×10^{-2}
17.00 – 17.98	(3.556 0.081 0.051)×10^{-2}	(2.355 0.220 0.059)×10^{-3}	(6.393 0.660 0.021)×10^{-2}
17.98 – 18.99	(2.852 0.070 0.041)×10^{-2}	(1.663 0.180 0.042)×10^{-3}	(5.573 0.660 0.019)×10^{-2}
18.99 – 20.04	(2.515 0.063 0.037)×10^{-2}	(1.143 0.140 0.029)×10^{-3}	(4.653 0.620 0.016)×10^{-2}
20.04 – 21.13	(2.086 0.056 0.031)×10^{-2}	(1.174 0.140 0.030)×10^{-3}	(5.819 0.730 0.020)×10^{-2}
21.13 – 22.25	(1.769 0.050 0.026)×10^{-2}	(1.074 0.130 0.027)×10^{-3}	(6.433 0.830 0.022)×10^{-2}
22.25 – 23.42	(1.522 0.044 0.023)×10^{-2}	(1.141 0.130 0.029)×10^{-3}	(7.892 0.950 0.027)×10^{-2}
23.42 – 24.62	(1.299 0.039 0.020)×10^{-2}	(7.943 1.000 0.200)×10^{-4}	(6.179 0.870 0.021)×10^{-2}
24.62 – 25.90	(1.056 0.034 0.016)×10^{-2}	(6.129 0.850 0.160)×10^{-4}	(6.346 0.930 0.022)×10^{-2}

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TABLE SM LXV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.285\ 0.300\ 0.140)\times10^{-3}$	$(7.286\ 0.890\ 0.190)\times10^{-4}$	$(7.260\ 1.000\ 0.025)\times10^{-2}$
27.25 – 28.68	$(7.563\ 0.260\ 0.120)\times10^{-3}$	$(6.274\ 0.790\ 0.160)\times10^{-4}$	$(8.540\ 1.200\ 0.029)\times10^{-2}$
28.68 – 30.21	$(6.176\ 0.230\ 0.097)\times10^{-3}$	$(4.225\ 0.620\ 0.110)\times10^{-4}$	$(7.289\ 1.100\ 0.025)\times10^{-2}$
30.21 – 31.82	$(5.801\ 0.210\ 0.092)\times10^{-3}$	$(4.090\ 0.600\ 0.100)\times10^{-4}$	$(7.893\ 1.200\ 0.028)\times10^{-2}$
31.82 – 33.53	$(4.629\ 0.180\ 0.074)\times10^{-3}$	$(4.717\ 0.620\ 0.120)\times10^{-4}$	$(9.522\ 1.500\ 0.034)\times10^{-2}$
33.53 – 35.36	$(3.707\ 0.160\ 0.060)\times10^{-3}$	$(3.412\ 0.500\ 0.088)\times10^{-4}$	$(8.732\ 1.400\ 0.031)\times10^{-2}$
35.36 – 37.31	$(3.329\ 0.150\ 0.054)\times10^{-3}$	$(2.339\ 0.400\ 0.060)\times10^{-4}$	$(6.575\ 1.300\ 0.024)\times10^{-2}$
37.31 – 39.39	$(2.771\ 0.130\ 0.046)\times10^{-3}$	$(2.153\ 0.370\ 0.055)\times10^{-4}$	$(6.480\ 1.400\ 0.024)\times10^{-2}$
39.39 – 41.61	$(2.078\ 0.110\ 0.035)\times10^{-3}$	$(2.075\ 0.360\ 0.053)\times10^{-4}$	$(9.282\ 1.800\ 0.036)\times10^{-2}$
41.61 – 44.00	$(1.890\ 0.100\ 0.032)\times10^{-3}$	$(1.937\ 0.330\ 0.050)\times10^{-4}$	$(10.60\ 2.100\ 0.042)\times10^{-2}$
44.00 – 46.57	$(1.419\ 0.084\ 0.024)\times10^{-3}$	$(9.315\ 2.300\ 0.240)\times10^{-5}$	$(6.966\ 1.800\ 0.028)\times10^{-2}$
46.57 – 49.33	$(1.371\ 0.079\ 0.024)\times10^{-3}$	$(1.106\ 0.230\ 0.028)\times10^{-4}$	$(9.513\ 2.100\ 0.040)\times10^{-2}$

TABLE SM LXVI: For Bartels Rotation 2492 (March 31, 2016 – April 26, 2016), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.452 0.025 0.025)$\times10^{1}$	(2.325 0.100 0.042)$\times10^{0}$	(16.09 0.810 0.180)$\times10^{-2}$
1.22 – 1.46	(1.327 0.019 0.019)$\times10^{1}$	(1.884 0.072 0.029)$\times10^{0}$	(13.92 0.600 0.150)$\times10^{-2}$
1.46 – 1.72	(1.124 0.013 0.014)$\times10^{1}$	(1.469 0.048 0.020)$\times10^{0}$	(13.08 0.480 0.140)$\times10^{-2}$
1.72 – 2.00	(9.536 0.094 0.110)$\times10^{0}$	(1.114 0.033 0.015)$\times10^{0}$	(11.75 0.380 0.120)$\times10^{-2}$
2.00 – 2.31	(7.824 0.069 0.078)$\times10^{0}$	(7.685 0.220 0.100)$\times10^{-1}$	(9.706 0.310 0.097)$\times10^{-2}$
2.31 – 2.65	(6.305 0.051 0.058)$\times10^{0}$	(5.662 0.160 0.076)$\times10^{-1}$	(9.161 0.280 0.088)$\times10^{-2}$
2.65 – 3.00	(5.035 0.041 0.045)$\times10^{0}$	(4.408 0.120 0.062)$\times10^{-1}$	(8.638 0.270 0.079)$\times10^{-2}$
3.00 – 3.36	(4.033 0.033 0.036)$\times10^{0}$	(3.270 0.097 0.048)$\times10^{-1}$	(8.245 0.270 0.071)$\times10^{-2}$
3.36 – 3.73	(3.300 0.027 0.029)$\times10^{0}$	(2.633 0.079 0.040)$\times10^{-1}$	(7.980 0.260 0.065)$\times10^{-2}$
3.73 – 4.12	(2.605 0.022 0.024)$\times10^{0}$	(1.875 0.061 0.030)$\times10^{-1}$	(7.277 0.260 0.055)$\times10^{-2}$
4.12 – 4.54	(2.153 0.018 0.020)$\times10^{0}$	(1.475 0.049 0.024)$\times10^{-1}$	(6.918 0.250 0.048)$\times10^{-2}$
4.54 – 5.00	(1.700 0.014 0.016)$\times10^{0}$	(1.073 0.038 0.018)$\times10^{-1}$	(6.382 0.240 0.040)$\times10^{-2}$
5.00 – 5.49	(1.345 0.012 0.013)$\times10^{0}$	(8.701 0.310 0.150)$\times10^{-2}$	(6.526 0.250 0.037)$\times10^{-2}$
5.49 – 6.00	(1.057 0.009 0.011)$\times10^{0}$	(6.758 0.250 0.120)$\times10^{-2}$	(6.327 0.250 0.032)$\times10^{-2}$
6.00 – 6.54	(8.246 0.076 0.090)$\times10^{-1}$	(4.797 0.190 0.088)$\times10^{-2}$	(6.057 0.260 0.027)$\times10^{-2}$
6.54 – 7.10	(6.490 0.063 0.073)$\times10^{-1}$	(3.938 0.160 0.074)$\times10^{-2}$	(6.150 0.270 0.024)$\times10^{-2}$
7.10 – 7.69	(5.219 0.053 0.060)$\times10^{-1}$	(3.098 0.130 0.059)$\times10^{-2}$	(6.098 0.280 0.022)$\times10^{-2}$
7.69 – 8.30	(4.131 0.045 0.049)$\times10^{-1}$	(2.466 0.110 0.048)$\times10^{-2}$	(5.968 0.300 0.021)$\times10^{-2}$
8.30 – 8.95	(3.272 0.037 0.040)$\times10^{-1}$	(1.954 0.095 0.039)$\times10^{-2}$	(5.954 0.320 0.020)$\times10^{-2}$
8.95 – 9.62	(2.727 0.033 0.034)$\times10^{-1}$	(1.626 0.083 0.033)$\times10^{-2}$	(6.023 0.340 0.020)$\times10^{-2}$
9.62 – 10.32	(2.117 0.027 0.027)$\times10^{-1}$	(1.237 0.070 0.026)$\times10^{-2}$	(5.947 0.360 0.020)$\times10^{-2}$
10.32 – 11.04	(1.709 0.024 0.022)$\times10^{-1}$	(9.582 0.580 0.210)$\times10^{-3}$	(5.406 0.360 0.018)$\times10^{-2}$
11.04 – 11.80	(1.404 0.021 0.018)$\times10^{-1}$	(7.963 0.510 0.180)$\times10^{-3}$	(5.600 0.390 0.018)$\times10^{-2}$
11.80 – 12.59	(1.142 0.018 0.015)$\times10^{-1}$	(6.750 0.450 0.150)$\times10^{-3}$	(5.715 0.420 0.018)$\times10^{-2}$
12.59 – 13.41	(9.340 0.160 0.130)$\times10^{-2}$	(5.816 0.400 0.130)$\times10^{-3}$	(6.425 0.480 0.021)$\times10^{-2}$
13.41 – 14.25	(7.611 0.140 0.100)$\times10^{-2}$	(5.604 0.380 0.130)$\times10^{-3}$	(7.504 0.560 0.024)$\times10^{-2}$
14.25 – 15.14	(6.143 0.120 0.085)$\times10^{-2}$	(3.917 0.300 0.094)$\times10^{-3}$	(6.237 0.540 0.020)$\times10^{-2}$
15.14 – 16.05	(5.307 0.110 0.074)$\times10^{-2}$	(3.273 0.270 0.080)$\times10^{-3}$	(6.147 0.560 0.020)$\times10^{-2}$
16.05 – 17.00	(4.329 0.092 0.061)$\times10^{-2}$	(2.503 0.230 0.062)$\times10^{-3}$	(5.916 0.590 0.019)$\times10^{-2}$
17.00 – 17.98	(3.431 0.079 0.049)$\times10^{-2}$	(2.486 0.220 0.062)$\times10^{-3}$	(6.615 0.670 0.022)$\times10^{-2}$
17.98 – 18.99	(2.982 0.071 0.043)$\times10^{-2}$	(1.776 0.180 0.045)$\times10^{-3}$	(6.034 0.670 0.020)$\times10^{-2}$
18.99 – 20.04	(2.529 0.063 0.037)$\times10^{-2}$	(1.722 0.170 0.043)$\times10^{-3}$	(7.475 0.780 0.025)$\times10^{-2}$
20.04 – 21.13	(2.174 0.057 0.032)$\times10^{-2}$	(1.505 0.160 0.038)$\times10^{-3}$	(6.347 0.760 0.021)$\times10^{-2}$
21.13 – 22.25	(1.784 0.050 0.027)$\times10^{-2}$	(1.225 0.140 0.031)$\times10^{-3}$	(6.546 0.820 0.022)$\times10^{-2}$
22.25 – 23.42	(1.466 0.043 0.022)$\times10^{-2}$	(1.209 0.130 0.031)$\times10^{-3}$	(8.156 0.970 0.028)$\times10^{-2}$
23.42 – 24.62	(1.315 0.040 0.020)$\times10^{-2}$	(8.227 1.000 0.210)$\times10^{-4}$	(6.323 0.880 0.022)$\times10^{-2}$
24.62 – 25.90	(1.062 0.034 0.016)$\times10^{-2}$	(7.422 0.930 0.190)$\times10^{-4}$	(6.772 0.950 0.023)$\times10^{-2}$

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TABLE SM LXVI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.179\ 0.300\ 0.140)\times10^{-3}$	$(5.937\ 0.790\ 0.150)\times10^{-4}$	$(6.300\ 0.940\ 0.022)\times10^{-2}$
27.25 – 28.68	$(7.859\ 0.270\ 0.120)\times10^{-3}$	$(7.167\ 0.840\ 0.180)\times10^{-4}$	$(8.885\ 1.200\ 0.031)\times10^{-2}$
28.68 – 30.21	$(6.804\ 0.240\ 0.110)\times10^{-3}$	$(5.302\ 0.690\ 0.140)\times10^{-4}$	$(8.415\ 1.200\ 0.029)\times10^{-2}$
30.21 – 31.82	$(5.457\ 0.210\ 0.086)\times10^{-3}$	$(3.327\ 0.530\ 0.085)\times10^{-4}$	$(6.488\ 1.100\ 0.023)\times10^{-2}$
31.82 – 33.53	$(4.974\ 0.190\ 0.080)\times10^{-3}$	$(2.416\ 0.450\ 0.062)\times10^{-4}$	$(4.910\ 0.990\ 0.017)\times10^{-2}$
33.53 – 35.36	$(3.770\ 0.160\ 0.061)\times10^{-3}$	$(3.503\ 0.500\ 0.090)\times10^{-4}$	$(8.672\ 1.400\ 0.031)\times10^{-2}$
35.36 – 37.31	$(3.247\ 0.140\ 0.053)\times10^{-3}$	$(2.128\ 0.390\ 0.055)\times10^{-4}$	$(6.549\ 1.300\ 0.024)\times10^{-2}$
37.31 – 39.39	$(2.781\ 0.130\ 0.046)\times10^{-3}$	$(2.538\ 0.410\ 0.065)\times10^{-4}$	$(9.131\ 1.600\ 0.034)\times10^{-2}$
39.39 – 41.61	$(2.324\ 0.110\ 0.039)\times10^{-3}$	$(1.825\ 0.340\ 0.047)\times10^{-4}$	$(8.190\ 1.700\ 0.031)\times10^{-2}$
41.61 – 44.00	$(1.879\ 0.100\ 0.032)\times10^{-3}$	$(1.694\ 0.310\ 0.043)\times10^{-4}$	$(8.359\ 1.800\ 0.033)\times10^{-2}$
44.00 – 46.57	$(1.665\ 0.090\ 0.028)\times10^{-3}$	$(1.262\ 0.260\ 0.032)\times10^{-4}$	$(7.572\ 1.700\ 0.031)\times10^{-2}$
46.57 – 49.33	$(1.405\ 0.081\ 0.024)\times10^{-3}$	$(1.605\ 0.290\ 0.041)\times10^{-4}$	$(11.59\ 2.300\ 0.049)\times10^{-2}$

TABLE SM LXVII: For Bartels Rotation 2493 (April 27, 2016 – May 23, 2016), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.502 0.026 0.026)×10^{1}	(2.632 0.110 0.047)×10^{0}	(17.45 0.850 0.200)×10^{-2}
1.22 – 1.46	(1.294 0.019 0.019)×10^{1}	(1.963 0.077 0.030)×10^{0}	(15.38 0.680 0.170)×10^{-2}
1.46 – 1.72	(1.158 0.014 0.015)×10^{1}	(1.431 0.051 0.020)×10^{0}	(12.56 0.490 0.130)×10^{-2}
1.72 – 2.00	(9.445 0.099 0.110)×10^{0}	(1.056 0.034 0.014)×10^{0}	(11.49 0.410 0.120)×10^{-2}
2.00 – 2.31	(7.791 0.072 0.078)×10^{0}	(7.716 0.230 0.100)×10^{-1}	(9.804 0.330 0.098)×10^{-2}
2.31 – 2.65	(6.278 0.054 0.058)×10^{0}	(5.823 0.170 0.078)×10^{-1}	(9.230 0.300 0.088)×10^{-2}
2.65 – 3.00	(5.038 0.042 0.045)×10^{0}	(4.458 0.130 0.062)×10^{-1}	(9.225 0.290 0.084)×10^{-2}
3.00 – 3.36	(4.107 0.034 0.036)×10^{0}	(3.186 0.099 0.047)×10^{-1}	(7.943 0.270 0.068)×10^{-2}
3.36 – 3.73	(3.313 0.028 0.030)×10^{0}	(2.493 0.080 0.038)×10^{-1}	(7.533 0.260 0.061)×10^{-2}
3.73 – 4.12	(2.676 0.023 0.024)×10^{0}	(1.942 0.064 0.031)×10^{-1}	(7.382 0.260 0.056)×10^{-2}
4.12 – 4.54	(2.138 0.018 0.020)×10^{0}	(1.446 0.050 0.024)×10^{-1}	(6.656 0.250 0.046)×10^{-2}
4.54 – 5.00	(1.663 0.015 0.016)×10^{0}	(1.114 0.039 0.019)×10^{-1}	(6.747 0.260 0.043)×10^{-2}
5.00 – 5.49	(1.296 0.012 0.013)×10^{0}	(8.459 0.310 0.150)×10^{-2}	(6.564 0.260 0.037)×10^{-2}
5.49 – 6.00	(1.041 0.009 0.011)×10^{0}	(5.988 0.240 0.110)×10^{-2}	(5.733 0.250 0.029)×10^{-2}
6.00 – 6.54	(8.204 0.077 0.089)×10^{-1}	(5.226 0.200 0.095)×10^{-2}	(6.395 0.270 0.028)×10^{-2}
6.54 – 7.10	(6.422 0.063 0.072)×10^{-1}	(3.843 0.160 0.072)×10^{-2}	(5.947 0.270 0.023)×10^{-2}
7.10 – 7.69	(5.264 0.054 0.061)×10^{-1}	(2.985 0.130 0.057)×10^{-2}	(5.708 0.280 0.020)×10^{-2}
7.69 – 8.30	(4.082 0.045 0.048)×10^{-1}	(2.231 0.110 0.044)×10^{-2}	(5.270 0.280 0.018)×10^{-2}
8.30 – 8.95	(3.321 0.038 0.040)×10^{-1}	(1.846 0.094 0.037)×10^{-2}	(5.572 0.310 0.019)×10^{-2}
8.95 – 9.62	(2.661 0.032 0.033)×10^{-1}	(1.487 0.081 0.031)×10^{-2}	(5.445 0.320 0.018)×10^{-2}
9.62 – 10.32	(2.102 0.028 0.027)×10^{-1}	(1.191 0.069 0.025)×10^{-2}	(5.421 0.350 0.018)×10^{-2}
10.32 – 11.04	(1.699 0.024 0.022)×10^{-1}	(1.016 0.060 0.022)×10^{-2}	(6.261 0.400 0.020)×10^{-2}
11.04 – 11.80	(1.361 0.020 0.018)×10^{-1}	(8.241 0.520 0.180)×10^{-3}	(6.310 0.430 0.020)×10^{-2}
11.80 – 12.59	(1.108 0.018 0.015)×10^{-1}	(7.570 0.480 0.170)×10^{-3}	(6.796 0.480 0.022)×10^{-2}
12.59 – 13.41	(9.534 0.160 0.130)×10^{-2}	(5.642 0.400 0.130)×10^{-3}	(5.800 0.460 0.019)×10^{-2}
13.41 – 14.25	(7.466 0.140 0.100)×10^{-2}	(5.216 0.370 0.120)×10^{-3}	(6.807 0.540 0.022)×10^{-2}
14.25 – 15.14	(6.495 0.120 0.090)×10^{-2}	(3.989 0.310 0.096)×10^{-3}	(5.921 0.510 0.019)×10^{-2}
15.14 – 16.05	(5.136 0.100 0.072)×10^{-2}	(2.848 0.260 0.069)×10^{-3}	(5.632 0.550 0.018)×10^{-2}
16.05 – 17.00	(4.435 0.093 0.063)×10^{-2}	(2.524 0.230 0.062)×10^{-3}	(5.331 0.550 0.017)×10^{-2}
17.00 – 17.98	(3.670 0.082 0.052)×10^{-2}	(2.402 0.220 0.060)×10^{-3}	(6.853 0.670 0.023)×10^{-2}
17.98 – 18.99	(2.900 0.071 0.042)×10^{-2}	(1.862 0.190 0.047)×10^{-3}	(6.845 0.740 0.023)×10^{-2}
18.99 – 20.04	(2.374 0.062 0.035)×10^{-2}	(1.445 0.160 0.037)×10^{-3}	(5.777 0.710 0.019)×10^{-2}
20.04 – 21.13	(2.142 0.057 0.032)×10^{-2}	(1.445 0.150 0.037)×10^{-3}	(7.031 0.810 0.024)×10^{-2}
21.13 – 22.25	(1.745 0.050 0.026)×10^{-2}	(1.136 0.130 0.029)×10^{-3}	(6.568 0.830 0.022)×10^{-2}
22.25 – 23.42	(1.543 0.045 0.023)×10^{-2}	(1.001 0.120 0.026)×10^{-3}	(6.916 0.890 0.024)×10^{-2}
23.42 – 24.62	(1.289 0.039 0.020)×10^{-2}	(8.936 1.100 0.230)×10^{-4}	(7.372 0.950 0.025)×10^{-2}
24.62 – 25.90	(1.073 0.034 0.016)×10^{-2}	(7.692 0.960 0.200)×10^{-4}	(7.431 1.000 0.025)×10^{-2}

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TABLE SM LXVII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(8.927\ 0.300\ 0.140)\times10^{-3}$	$(6.745\ 0.850\ 0.170)\times10^{-4}$	$(8.072\ 1.100\ 0.028)\times10^{-2}$
27.25 – 28.68	$(7.435\ 0.260\ 0.120)\times10^{-3}$	$(6.374\ 0.800\ 0.160)\times10^{-4}$	$(8.801\ 1.200\ 0.030)\times10^{-2}$
28.68 – 30.21	$(6.603\ 0.240\ 0.100)\times10^{-3}$	$(4.967\ 0.670\ 0.130)\times10^{-4}$	$(7.936\ 1.200\ 0.028)\times10^{-2}$
30.21 – 31.82	$(5.673\ 0.210\ 0.090)\times10^{-3}$	$(4.663\ 0.630\ 0.120)\times10^{-4}$	$(7.524\ 1.200\ 0.026)\times10^{-2}$
31.82 – 33.53	$(4.568\ 0.180\ 0.073)\times10^{-3}$	$(4.574\ 0.600\ 0.120)\times10^{-4}$	$(10.09\ 1.500\ 0.036)\times10^{-2}$
33.53 – 35.36	$(4.126\ 0.170\ 0.067)\times10^{-3}$	$(3.730\ 0.520\ 0.096)\times10^{-4}$	$(9.342\ 1.400\ 0.034)\times10^{-2}$
35.36 – 37.31	$(3.355\ 0.150\ 0.055)\times10^{-3}$	$(3.509\ 0.500\ 0.090)\times10^{-4}$	$(9.755\ 1.600\ 0.036)\times10^{-2}$
37.31 – 39.39	$(2.743\ 0.130\ 0.045)\times10^{-3}$	$(2.190\ 0.380\ 0.056)\times10^{-4}$	$(7.580\ 1.500\ 0.028)\times10^{-2}$
39.39 – 41.61	$(2.469\ 0.120\ 0.041)\times10^{-3}$	$(1.843\ 0.340\ 0.047)\times10^{-4}$	$(6.295\ 1.400\ 0.024)\times10^{-2}$
41.61 – 44.00	$(2.000\ 0.100\ 0.034)\times10^{-3}$	$(1.836\ 0.320\ 0.047)\times10^{-4}$	$(9.518\ 1.900\ 0.037)\times10^{-2}$
44.00 – 46.57	$(1.683\ 0.091\ 0.029)\times10^{-3}$	$(1.104\ 0.240\ 0.028)\times10^{-4}$	$(6.582\ 1.600\ 0.027)\times10^{-2}$
46.57 – 49.33	$(1.428\ 0.081\ 0.025)\times10^{-3}$	$(1.410\ 0.270\ 0.036)\times10^{-4}$	$(10.90\ 2.200\ 0.046)\times10^{-2}$

TABLE SM LXVIII: For Bartels Rotation 2494 (May 24, 2016 – June 19, 2016), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.585 0.027 0.027)$\times10^{1}$	(2.716 0.110 0.049)$\times10^{0}$	(17.05 0.800 0.190)$\times10^{-2}$
1.22 – 1.46	(1.418 0.019 0.021)$\times10^{1}$	(2.021 0.075 0.031)$\times10^{0}$	(14.14 0.590 0.160)$\times10^{-2}$
1.46 – 1.72	(1.204 0.014 0.015)$\times10^{1}$	(1.624 0.051 0.023)$\times10^{0}$	(13.24 0.470 0.140)$\times10^{-2}$
1.72 – 2.00	(9.793 0.096 0.110)$\times10^{0}$	(1.151 0.034 0.015)$\times10^{0}$	(11.95 0.390 0.120)$\times10^{-2}$
2.00 – 2.31	(8.046 0.070 0.080)$\times10^{0}$	(8.091 0.230 0.110)$\times10^{-1}$	(10.17 0.320 0.100)$\times10^{-2}$
2.31 – 2.65	(6.499 0.053 0.060)$\times10^{0}$	(6.019 0.160 0.081)$\times10^{-1}$	(9.442 0.280 0.090)$\times10^{-2}$
2.65 – 3.00	(5.207 0.042 0.046)$\times10^{0}$	(4.495 0.130 0.063)$\times10^{-1}$	(8.623 0.270 0.079)$\times10^{-2}$
3.00 – 3.36	(4.226 0.034 0.037)$\times10^{0}$	(3.521 0.100 0.052)$\times10^{-1}$	(8.523 0.270 0.073)$\times10^{-2}$
3.36 – 3.73	(3.323 0.027 0.030)$\times10^{0}$	(2.574 0.079 0.039)$\times10^{-1}$	(7.740 0.260 0.063)$\times10^{-2}$
3.73 – 4.12	(2.694 0.022 0.024)$\times10^{0}$	(1.986 0.063 0.031)$\times10^{-1}$	(7.529 0.260 0.057)$\times10^{-2}$
4.12 – 4.54	(2.151 0.018 0.020)$\times10^{0}$	(1.507 0.050 0.025)$\times10^{-1}$	(7.094 0.250 0.049)$\times10^{-2}$
4.54 – 5.00	(1.719 0.015 0.017)$\times10^{0}$	(1.097 0.038 0.019)$\times10^{-1}$	(6.695 0.250 0.042)$\times10^{-2}$
5.00 – 5.49	(1.344 0.012 0.013)$\times10^{0}$	(8.546 0.310 0.150)$\times10^{-2}$	(6.484 0.250 0.037)$\times10^{-2}$
5.49 – 6.00	(1.076 0.010 0.011)$\times10^{0}$	(6.785 0.250 0.120)$\times10^{-2}$	(6.463 0.250 0.033)$\times10^{-2}$
6.00 – 6.54	(8.257 0.076 0.090)$\times10^{-1}$	(5.172 0.200 0.094)$\times10^{-2}$	(6.209 0.260 0.027)$\times10^{-2}$
6.54 – 7.10	(6.550 0.063 0.074)$\times10^{-1}$	(4.119 0.170 0.077)$\times10^{-2}$	(6.363 0.280 0.024)$\times10^{-2}$
7.10 – 7.69	(5.271 0.053 0.061)$\times10^{-1}$	(3.310 0.140 0.063)$\times10^{-2}$	(6.262 0.290 0.022)$\times10^{-2}$
7.69 – 8.30	(4.156 0.045 0.049)$\times10^{-1}$	(2.361 0.110 0.046)$\times10^{-2}$	(5.574 0.290 0.019)$\times10^{-2}$
8.30 – 8.95	(3.323 0.038 0.040)$\times10^{-1}$	(1.949 0.096 0.039)$\times10^{-2}$	(6.007 0.320 0.020)$\times10^{-2}$
8.95 – 9.62	(2.675 0.032 0.033)$\times10^{-1}$	(1.614 0.084 0.033)$\times10^{-2}$	(6.157 0.340 0.020)$\times10^{-2}$
9.62 – 10.32	(2.159 0.028 0.027)$\times10^{-1}$	(1.247 0.070 0.026)$\times10^{-2}$	(5.814 0.350 0.019)$\times10^{-2}$
10.32 – 11.04	(1.738 0.024 0.022)$\times10^{-1}$	(1.034 0.061 0.022)$\times10^{-2}$	(6.048 0.390 0.020)$\times10^{-2}$
11.04 – 11.80	(1.415 0.021 0.018)$\times10^{-1}$	(8.298 0.520 0.180)$\times10^{-3}$	(5.605 0.390 0.018)$\times10^{-2}$
11.80 – 12.59	(1.148 0.018 0.015)$\times10^{-1}$	(6.447 0.440 0.150)$\times10^{-3}$	(5.547 0.420 0.018)$\times10^{-2}$
12.59 – 13.41	(9.388 0.160 0.130)$\times10^{-2}$	(5.383 0.390 0.120)$\times10^{-3}$	(5.713 0.450 0.018)$\times10^{-2}$
13.41 – 14.25	(7.635 0.140 0.100)$\times10^{-2}$	(4.484 0.350 0.110)$\times10^{-3}$	(5.733 0.490 0.018)$\times10^{-2}$
14.25 – 15.14	(6.195 0.120 0.086)$\times10^{-2}$	(3.744 0.300 0.090)$\times10^{-3}$	(6.069 0.530 0.020)$\times10^{-2}$
15.14 – 16.05	(5.203 0.100 0.073)$\times10^{-2}$	(3.512 0.280 0.085)$\times10^{-3}$	(6.593 0.590 0.021)$\times10^{-2}$
16.05 – 17.00	(4.216 0.091 0.060)$\times10^{-2}$	(2.853 0.250 0.070)$\times10^{-3}$	(6.877 0.650 0.023)$\times10^{-2}$
17.00 – 17.98	(3.619 0.082 0.052)$\times10^{-2}$	(2.378 0.220 0.059)$\times10^{-3}$	(7.099 0.690 0.023)$\times10^{-2}$
17.98 – 18.99	(2.946 0.071 0.043)$\times10^{-2}$	(1.782 0.180 0.045)$\times10^{-3}$	(6.168 0.690 0.021)$\times10^{-2}$
18.99 – 20.04	(2.566 0.064 0.037)$\times10^{-2}$	(1.470 0.160 0.037)$\times10^{-3}$	(6.285 0.720 0.021)$\times10^{-2}$
20.04 – 21.13	(2.152 0.057 0.032)$\times10^{-2}$	(1.304 0.140 0.033)$\times10^{-3}$	(6.662 0.790 0.023)$\times10^{-2}$
21.13 – 22.25	(1.848 0.051 0.027)$\times10^{-2}$	(1.111 0.130 0.028)$\times10^{-3}$	(6.271 0.790 0.021)$\times10^{-2}$
22.25 – 23.42	(1.510 0.044 0.023)$\times10^{-2}$	(1.167 0.130 0.030)$\times10^{-3}$	(7.615 0.930 0.026)$\times10^{-2}$
23.42 – 24.62	(1.274 0.039 0.019)$\times10^{-2}$	(9.728 1.100 0.250)$\times10^{-4}$	(7.692 0.990 0.026)$\times10^{-2}$
24.62 – 25.90	(1.025 0.033 0.016)$\times10^{-2}$	(8.968 1.000 0.230)$\times10^{-4}$	(9.153 1.100 0.031)$\times10^{-2}$

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TABLE SM LXVIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(8.907\ 0.300\ 0.140)\times10^{-3}$	$(7.105\ 0.870\ 0.180)\times10^{-4}$	$(7.649\ 1.100\ 0.026)\times10^{-2}$
27.25 – 28.68	$(7.909\ 0.270\ 0.120)\times10^{-3}$	$(6.375\ 0.790\ 0.160)\times10^{-4}$	$(7.300\ 1.100\ 0.025)\times10^{-2}$
28.68 – 30.21	$(6.444\ 0.230\ 0.100)\times10^{-3}$	$(7.333\ 0.810\ 0.190)\times10^{-4}$	$(10.81\ 1.400\ 0.038)\times10^{-2}$
30.21 – 31.82	$(5.765\ 0.210\ 0.091)\times10^{-3}$	$(4.086\ 0.590\ 0.100)\times10^{-4}$	$(7.518\ 1.200\ 0.026)\times10^{-2}$
31.82 – 33.53	$(4.681\ 0.190\ 0.075)\times10^{-3}$	$(3.637\ 0.530\ 0.093)\times10^{-4}$	$(7.608\ 1.300\ 0.027)\times10^{-2}$
33.53 – 35.36	$(3.966\ 0.160\ 0.064)\times10^{-3}$	$(3.655\ 0.520\ 0.094)\times10^{-4}$	$(8.662\ 1.400\ 0.031)\times10^{-2}$
35.36 – 37.31	$(3.375\ 0.150\ 0.055)\times10^{-3}$	$(3.008\ 0.450\ 0.077)\times10^{-4}$	$(7.241\ 1.300\ 0.027)\times10^{-2}$
37.31 – 39.39	$(2.861\ 0.130\ 0.047)\times10^{-3}$	$(3.072\ 0.450\ 0.079)\times10^{-4}$	$(10.59\ 1.800\ 0.040)\times10^{-2}$
39.39 – 41.61	$(2.263\ 0.110\ 0.038)\times10^{-3}$	$(1.810\ 0.330\ 0.046)\times10^{-4}$	$(8.451\ 1.700\ 0.032)\times10^{-2}$
41.61 – 44.00	$(1.927\ 0.100\ 0.033)\times10^{-3}$	$(1.393\ 0.280\ 0.036)\times10^{-4}$	$(6.947\ 1.500\ 0.027)\times10^{-2}$
44.00 – 46.57	$(1.626\ 0.090\ 0.028)\times10^{-3}$	$(1.046\ 0.240\ 0.027)\times10^{-4}$	$(7.255\ 1.700\ 0.029)\times10^{-2}$
46.57 – 49.33	$(1.503\ 0.083\ 0.026)\times10^{-3}$	$(1.226\ 0.250\ 0.031)\times10^{-4}$	$(8.830\ 2.000\ 0.037)\times10^{-2}$

TABLE SM LXIX: For Bartels Rotation 2495 (June 20, 2016 – July 16, 2016), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.561 0.026 0.027)$\times10^{1}$	(2.861 0.120 0.051)$\times10^{0}$	(18.43 0.850 0.210)$\times10^{-2}$
1.22 – 1.46	(1.400 0.019 0.020)$\times10^{1}$	(2.120 0.077 0.032)$\times10^{0}$	(15.39 0.630 0.170)$\times10^{-2}$
1.46 – 1.72	(1.179 0.014 0.015)$\times10^{1}$	(1.556 0.050 0.022)$\times10^{0}$	(13.41 0.480 0.140)$\times10^{-2}$
1.72 – 2.00	(9.828 0.096 0.110)$\times10^{0}$	(1.121 0.033 0.015)$\times10^{0}$	(11.53 0.380 0.120)$\times10^{-2}$
2.00 – 2.31	(7.929 0.070 0.079)$\times10^{0}$	(8.098 0.230 0.110)$\times10^{-1}$	(10.39 0.320 0.100)$\times10^{-2}$
2.31 – 2.65	(6.424 0.053 0.059)$\times10^{0}$	(6.066 0.170 0.081)$\times10^{-1}$	(9.538 0.290 0.091)$\times10^{-2}$
2.65 – 3.00	(5.245 0.042 0.047)$\times10^{0}$	(4.490 0.130 0.063)$\times10^{-1}$	(8.585 0.270 0.078)$\times10^{-2}$
3.00 – 3.36	(4.171 0.034 0.037)$\times10^{0}$	(3.360 0.099 0.049)$\times10^{-1}$	(7.977 0.260 0.069)$\times10^{-2}$
3.36 – 3.73	(3.385 0.028 0.030)$\times10^{0}$	(2.403 0.077 0.037)$\times10^{-1}$	(7.255 0.250 0.059)$\times10^{-2}$
3.73 – 4.12	(2.742 0.023 0.025)$\times10^{0}$	(1.957 0.063 0.031)$\times10^{-1}$	(7.157 0.250 0.054)$\times10^{-2}$
4.12 – 4.54	(2.146 0.018 0.020)$\times10^{0}$	(1.514 0.050 0.025)$\times10^{-1}$	(6.953 0.250 0.048)$\times10^{-2}$
4.54 – 5.00	(1.697 0.014 0.016)$\times10^{0}$	(1.069 0.038 0.018)$\times10^{-1}$	(6.440 0.240 0.041)$\times10^{-2}$
5.00 – 5.49	(1.333 0.012 0.013)$\times10^{0}$	(8.247 0.300 0.140)$\times10^{-2}$	(6.193 0.250 0.035)$\times10^{-2}$
5.49 – 6.00	(1.049 0.009 0.011)$\times10^{0}$	(6.238 0.240 0.110)$\times10^{-2}$	(6.099 0.250 0.031)$\times10^{-2}$
6.00 – 6.54	(8.353 0.077 0.091)$\times10^{-1}$	(4.975 0.200 0.091)$\times10^{-2}$	(6.177 0.260 0.027)$\times10^{-2}$
6.54 – 7.10	(6.550 0.063 0.074)$\times10^{-1}$	(3.955 0.160 0.074)$\times10^{-2}$	(6.124 0.270 0.024)$\times10^{-2}$
7.10 – 7.69	(5.261 0.053 0.061)$\times10^{-1}$	(3.063 0.130 0.058)$\times10^{-2}$	(5.861 0.280 0.021)$\times10^{-2}$
7.69 – 8.30	(4.142 0.045 0.049)$\times10^{-1}$	(2.324 0.110 0.045)$\times10^{-2}$	(5.707 0.290 0.020)$\times10^{-2}$
8.30 – 8.95	(3.296 0.038 0.040)$\times10^{-1}$	(1.938 0.095 0.039)$\times10^{-2}$	(6.037 0.320 0.020)$\times10^{-2}$
8.95 – 9.62	(2.622 0.032 0.032)$\times10^{-1}$	(1.549 0.082 0.032)$\times10^{-2}$	(5.815 0.340 0.019)$\times10^{-2}$
9.62 – 10.32	(2.172 0.028 0.027)$\times10^{-1}$	(1.330 0.072 0.028)$\times10^{-2}$	(6.300 0.370 0.021)$\times10^{-2}$
10.32 – 11.04	(1.756 0.024 0.023)$\times10^{-1}$	(9.689 0.590 0.210)$\times10^{-3}$	(5.612 0.370 0.018)$\times10^{-2}$
11.04 – 11.80	(1.374 0.020 0.018)$\times10^{-1}$	(8.297 0.520 0.180)$\times10^{-3}$	(5.939 0.410 0.019)$\times10^{-2}$
11.80 – 12.59	(1.137 0.018 0.015)$\times10^{-1}$	(6.605 0.450 0.150)$\times10^{-3}$	(5.911 0.430 0.019)$\times10^{-2}$
12.59 – 13.41	(9.408 0.160 0.130)$\times10^{-2}$	(6.001 0.410 0.140)$\times10^{-3}$	(6.222 0.480 0.020)$\times10^{-2}$
13.41 – 14.25	(7.435 0.130 0.100)$\times10^{-2}$	(4.002 0.330 0.094)$\times10^{-3}$	(5.325 0.470 0.017)$\times10^{-2}$
14.25 – 15.14	(6.137 0.120 0.085)$\times10^{-2}$	(3.892 0.310 0.093)$\times10^{-3}$	(6.236 0.550 0.020)$\times10^{-2}$
15.14 – 16.05	(4.965 0.100 0.069)$\times10^{-2}$	(3.002 0.260 0.073)$\times10^{-3}$	(6.020 0.580 0.020)$\times10^{-2}$
16.05 – 17.00	(4.254 0.091 0.060)$\times10^{-2}$	(3.090 0.250 0.076)$\times10^{-3}$	(7.352 0.670 0.024)$\times10^{-2}$
17.00 – 17.98	(3.438 0.079 0.049)$\times10^{-2}$	(2.070 0.200 0.051)$\times10^{-3}$	(6.633 0.690 0.022)$\times10^{-2}$
17.98 – 18.99	(2.868 0.070 0.041)$\times10^{-2}$	(2.253 0.200 0.057)$\times10^{-3}$	(7.900 0.790 0.026)$\times10^{-2}$
18.99 – 20.04	(2.545 0.064 0.037)$\times10^{-2}$	(1.381 0.160 0.035)$\times10^{-3}$	(5.143 0.650 0.017)$\times10^{-2}$
20.04 – 21.13	(2.092 0.056 0.031)$\times10^{-2}$	(1.549 0.160 0.039)$\times10^{-3}$	(7.232 0.830 0.024)$\times10^{-2}$
21.13 – 22.25	(1.767 0.050 0.026)$\times10^{-2}$	(1.074 0.130 0.027)$\times10^{-3}$	(6.125 0.790 0.021)$\times10^{-2}$
22.25 – 23.42	(1.526 0.044 0.023)$\times10^{-2}$	(1.067 0.120 0.027)$\times10^{-3}$	(6.603 0.860 0.022)$\times10^{-2}$
23.42 – 24.62	(1.260 0.039 0.019)$\times10^{-2}$	(9.409 1.100 0.240)$\times10^{-4}$	(7.506 0.990 0.026)$\times10^{-2}$
24.62 – 25.90	(1.034 0.034 0.016)$\times10^{-2}$	(9.050 1.000 0.230)$\times10^{-4}$	(8.703 1.100 0.030)$\times10^{-2}$

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TABLE SM LXIX – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(8.922\ 0.300\ 0.140)\times10^{-3}$	$(6.647\ 0.850\ 0.170)\times10^{-4}$	$(7.791\ 1.100\ 0.027)\times10^{-2}$
27.25 – 28.68	$(7.962\ 0.270\ 0.120)\times10^{-3}$	$(5.876\ 0.760\ 0.150)\times10^{-4}$	$(7.137\ 1.000\ 0.025)\times10^{-2}$
28.68 – 30.21	$(6.352\ 0.230\ 0.100)\times10^{-3}$	$(5.210\ 0.700\ 0.130)\times10^{-4}$	$(7.802\ 1.200\ 0.027)\times10^{-2}$
30.21 – 31.82	$(5.381\ 0.210\ 0.085)\times10^{-3}$	$(4.834\ 0.650\ 0.120)\times10^{-4}$	$(9.285\ 1.400\ 0.033)\times10^{-2}$
31.82 – 33.53	$(4.746\ 0.190\ 0.076)\times10^{-3}$	$(3.171\ 0.500\ 0.081)\times10^{-4}$	$(7.562\ 1.300\ 0.027)\times10^{-2}$
33.53 – 35.36	$(4.267\ 0.170\ 0.069)\times10^{-3}$	$(2.851\ 0.450\ 0.073)\times10^{-4}$	$(6.691\ 1.200\ 0.024)\times10^{-2}$
35.36 – 37.31	$(3.569\ 0.150\ 0.058)\times10^{-3}$	$(3.525\ 0.500\ 0.090)\times10^{-4}$	$(10.16\ 1.600\ 0.037)\times10^{-2}$
37.31 – 39.39	$(2.947\ 0.130\ 0.049)\times10^{-3}$	$(2.457\ 0.400\ 0.063)\times10^{-4}$	$(9.368\ 1.600\ 0.035)\times10^{-2}$
39.39 – 41.61	$(2.409\ 0.120\ 0.040)\times10^{-3}$	$(1.566\ 0.310\ 0.040)\times10^{-4}$	$(6.651\ 1.500\ 0.025)\times10^{-2}$
41.61 – 44.00	$(2.007\ 0.100\ 0.034)\times10^{-3}$	$(2.004\ 0.340\ 0.051)\times10^{-4}$	$(10.96\ 2.000\ 0.043)\times10^{-2}$
44.00 – 46.57	$(1.765\ 0.094\ 0.030)\times10^{-3}$	$(1.532\ 0.290\ 0.039)\times10^{-4}$	$(8.679\ 1.800\ 0.035)\times10^{-2}$
46.57 – 49.33	$(1.405\ 0.081\ 0.024)\times10^{-3}$	$(1.779\ 0.300\ 0.046)\times10^{-4}$	$(12.89\ 2.400\ 0.054)\times10^{-2}$

TABLE SM LXX: For Bartels Rotation 2496 (July 17, 2016 – August 12, 2016), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.538 0.026 0.026)$\times10^{1}$	(2.733 0.110 0.049)$\times10^{0}$	(17.64 0.840 0.200)$\times10^{-2}$
1.22 – 1.46	(1.381 0.019 0.020)$\times10^{1}$	(2.122 0.077 0.032)$\times10^{0}$	(15.65 0.630 0.170)$\times10^{-2}$
1.46 – 1.72	(1.190 0.014 0.015)$\times10^{1}$	(1.573 0.051 0.022)$\times10^{0}$	(13.44 0.480 0.140)$\times10^{-2}$
1.72 – 2.00	(9.805 0.096 0.110)$\times10^{0}$	(1.089 0.033 0.015)$\times10^{0}$	(11.12 0.370 0.110)$\times10^{-2}$
2.00 – 2.31	(7.796 0.069 0.078)$\times10^{0}$	(8.389 0.230 0.110)$\times10^{-1}$	(10.74 0.330 0.110)$\times10^{-2}$
2.31 – 2.65	(6.474 0.053 0.059)$\times10^{0}$	(5.963 0.160 0.080)$\times10^{-1}$	(9.319 0.280 0.089)$\times10^{-2}$
2.65 – 3.00	(5.148 0.042 0.046)$\times10^{0}$	(4.420 0.130 0.062)$\times10^{-1}$	(8.857 0.270 0.081)$\times10^{-2}$
3.00 – 3.36	(4.092 0.033 0.036)$\times10^{0}$	(3.504 0.100 0.051)$\times10^{-1}$	(8.797 0.280 0.076)$\times10^{-2}$
3.36 – 3.73	(3.336 0.028 0.030)$\times10^{0}$	(2.523 0.079 0.038)$\times10^{-1}$	(7.546 0.260 0.061)$\times10^{-2}$
3.73 – 4.12	(2.675 0.022 0.024)$\times10^{0}$	(1.901 0.062 0.030)$\times10^{-1}$	(7.171 0.250 0.054)$\times10^{-2}$
4.12 – 4.54	(2.142 0.018 0.020)$\times10^{0}$	(1.473 0.049 0.024)$\times10^{-1}$	(6.847 0.250 0.047)$\times10^{-2}$
4.54 – 5.00	(1.704 0.014 0.016)$\times10^{0}$	(1.111 0.039 0.019)$\times10^{-1}$	(6.710 0.250 0.042)$\times10^{-2}$
5.00 – 5.49	(1.338 0.012 0.013)$\times10^{0}$	(8.909 0.310 0.150)$\times10^{-2}$	(6.503 0.250 0.037)$\times10^{-2}$
5.49 – 6.00	(1.051 0.009 0.011)$\times10^{0}$	(6.688 0.250 0.120)$\times10^{-2}$	(6.380 0.260 0.032)$\times10^{-2}$
6.00 – 6.54	(8.400 0.077 0.091)$\times10^{-1}$	(5.091 0.200 0.093)$\times10^{-2}$	(6.187 0.260 0.027)$\times10^{-2}$
6.54 – 7.10	(6.630 0.064 0.075)$\times10^{-1}$	(4.035 0.160 0.075)$\times10^{-2}$	(6.364 0.280 0.024)$\times10^{-2}$
7.10 – 7.69	(5.231 0.053 0.061)$\times10^{-1}$	(3.069 0.130 0.059)$\times10^{-2}$	(5.763 0.280 0.021)$\times10^{-2}$
7.69 – 8.30	(4.145 0.045 0.049)$\times10^{-1}$	(2.514 0.120 0.049)$\times10^{-2}$	(6.174 0.300 0.021)$\times10^{-2}$
8.30 – 8.95	(3.253 0.037 0.039)$\times10^{-1}$	(1.927 0.096 0.039)$\times10^{-2}$	(5.976 0.320 0.020)$\times10^{-2}$
8.95 – 9.62	(2.638 0.032 0.033)$\times10^{-1}$	(1.581 0.083 0.033)$\times10^{-2}$	(6.034 0.340 0.020)$\times10^{-2}$
9.62 – 10.32	(2.177 0.028 0.027)$\times10^{-1}$	(1.300 0.071 0.027)$\times10^{-2}$	(5.947 0.350 0.020)$\times10^{-2}$
10.32 – 11.04	(1.718 0.024 0.022)$\times10^{-1}$	(9.429 0.590 0.200)$\times10^{-3}$	(5.616 0.370 0.018)$\times10^{-2}$
11.04 – 11.80	(1.399 0.021 0.018)$\times10^{-1}$	(8.604 0.530 0.190)$\times10^{-3}$	(5.907 0.410 0.019)$\times10^{-2}$
11.80 – 12.59	(1.115 0.018 0.015)$\times10^{-1}$	(6.386 0.440 0.140)$\times10^{-3}$	(5.346 0.420 0.017)$\times10^{-2}$
12.59 – 13.41	(9.431 0.160 0.130)$\times10^{-2}$	(6.071 0.410 0.140)$\times10^{-3}$	(6.474 0.480 0.021)$\times10^{-2}$
13.41 – 14.25	(7.752 0.140 0.110)$\times10^{-2}$	(4.708 0.360 0.110)$\times10^{-3}$	(6.474 0.520 0.021)$\times10^{-2}$
14.25 – 15.14	(6.395 0.120 0.088)$\times10^{-2}$	(4.469 0.330 0.110)$\times10^{-3}$	(6.753 0.550 0.022)$\times10^{-2}$
15.14 – 16.05	(5.178 0.100 0.072)$\times10^{-2}$	(3.373 0.280 0.082)$\times10^{-3}$	(6.629 0.600 0.022)$\times10^{-2}$
16.05 – 17.00	(4.376 0.093 0.062)$\times10^{-2}$	(2.865 0.250 0.071)$\times10^{-3}$	(5.769 0.580 0.019)$\times10^{-2}$
17.00 – 17.98	(3.567 0.081 0.051)$\times10^{-2}$	(2.198 0.210 0.055)$\times10^{-3}$	(6.161 0.640 0.020)$\times10^{-2}$
17.98 – 18.99	(2.982 0.072 0.043)$\times10^{-2}$	(1.974 0.190 0.050)$\times10^{-3}$	(6.931 0.730 0.023)$\times10^{-2}$
18.99 – 20.04	(2.468 0.063 0.036)$\times10^{-2}$	(1.690 0.170 0.043)$\times10^{-3}$	(6.494 0.740 0.022)$\times10^{-2}$
20.04 – 21.13	(2.148 0.057 0.032)$\times10^{-2}$	(1.557 0.160 0.040)$\times10^{-3}$	(7.305 0.820 0.025)$\times10^{-2}$
21.13 – 22.25	(1.802 0.050 0.027)$\times10^{-2}$	(1.179 0.130 0.030)$\times10^{-3}$	(6.231 0.800 0.021)$\times10^{-2}$
22.25 – 23.42	(1.456 0.043 0.022)$\times10^{-2}$	(9.708 1.200 0.250)$\times10^{-4}$	(7.105 0.910 0.024)$\times10^{-2}$
23.42 – 24.62	(1.262 0.039 0.019)$\times10^{-2}$	(8.799 1.100 0.230)$\times10^{-4}$	(7.356 0.950 0.025)$\times10^{-2}$
24.62 – 25.90	(1.102 0.035 0.017)$\times10^{-2}$	(7.605 0.940 0.200)$\times10^{-4}$	(7.234 0.970 0.025)$\times10^{-2}$

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TABLE SM LXX – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(8.649 0.290 0.130)$\times10^{-3}$	(6.601 0.840 0.170)$\times10^{-4}$	(7.811 1.100 0.027)$\times10^{-2}$
27.25 – 28.68	(7.828 0.270 0.120)$\times10^{-3}$	(6.801 0.830 0.170)$\times10^{-4}$	(8.750 1.200 0.030)$\times10^{-2}$
28.68 – 30.21	(6.123 0.230 0.096)$\times10^{-3}$	(4.808 0.660 0.120)$\times10^{-4}$	(8.134 1.200 0.028)$\times10^{-2}$
30.21 – 31.82	(5.860 0.220 0.093)$\times10^{-3}$	(4.599 0.630 0.120)$\times10^{-4}$	(8.226 1.200 0.029)$\times10^{-2}$
31.82 – 33.53	(4.803 0.190 0.077)$\times10^{-3}$	(2.992 0.490 0.077)$\times10^{-4}$	(6.423 1.100 0.023)$\times10^{-2}$
33.53 – 35.36	(3.969 0.160 0.064)$\times10^{-3}$	(3.080 0.480 0.079)$\times10^{-4}$	(8.912 1.500 0.032)$\times10^{-2}$
35.36 – 37.31	(3.400 0.150 0.056)$\times10^{-3}$	(2.536 0.420 0.065)$\times10^{-4}$	(7.513 1.400 0.028)$\times10^{-2}$
37.31 – 39.39	(2.624 0.130 0.043)$\times10^{-3}$	(2.763 0.420 0.071)$\times10^{-4}$	(10.08 1.700 0.038)$\times10^{-2}$
39.39 – 41.61	(2.409 0.120 0.040)$\times10^{-3}$	(1.716 0.320 0.044)$\times10^{-4}$	(7.416 1.500 0.028)$\times10^{-2}$
41.61 – 44.00	(1.893 0.100 0.032)$\times10^{-3}$	(1.600 0.300 0.041)$\times10^{-4}$	(9.278 1.900 0.036)$\times10^{-2}$
44.00 – 46.57	(1.605 0.089 0.027)$\times10^{-3}$	(1.572 0.290 0.040)$\times10^{-4}$	(10.72 2.200 0.044)$\times10^{-2}$
46.57 – 49.33	(1.340 0.079 0.023)$\times10^{-3}$	(2.015 0.310 0.052)$\times10^{-4}$	(14.22 2.700 0.060)$\times10^{-2}$

TABLE SM LXXI: For Bartels Rotation 2497 (August 13, 2016 – September 08, 2016), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.656 0.028 0.028)×10^{1}	(2.901 0.120 0.052)×10^{0}	(17.63 0.820 0.200)×10^{-2}
1.22 – 1.46	(1.382 0.020 0.020)×10^{1}	(2.217 0.082 0.034)×10^{0}	(15.55 0.650 0.170)×10^{-2}
1.46 – 1.72	(1.231 0.014 0.016)×10^{1}	(1.621 0.054 0.023)×10^{0}	(13.15 0.490 0.140)×10^{-2}
1.72 – 2.00	(1.020 0.010 0.011)×10^{1}	(1.191 0.036 0.016)×10^{0}	(11.36 0.380 0.120)×10^{-2}
2.00 – 2.31	(8.206 0.073 0.082)×10^{0}	(8.560 0.240 0.110)×10^{-1}	(10.56 0.330 0.110)×10^{-2}
2.31 – 2.65	(6.678 0.055 0.061)×10^{0}	(5.873 0.170 0.079)×10^{-1}	(8.984 0.280 0.086)×10^{-2}
2.65 – 3.00	(5.377 0.043 0.048)×10^{0}	(4.799 0.130 0.067)×10^{-1}	(8.951 0.270 0.082)×10^{-2}
3.00 – 3.36	(4.253 0.035 0.038)×10^{0}	(3.630 0.110 0.053)×10^{-1}	(8.603 0.270 0.074)×10^{-2}
3.36 – 3.73	(3.439 0.028 0.031)×10^{0}	(2.600 0.081 0.040)×10^{-1}	(7.604 0.260 0.062)×10^{-2}
3.73 – 4.12	(2.744 0.023 0.025)×10^{0}	(1.935 0.064 0.031)×10^{-1}	(7.351 0.260 0.055)×10^{-2}
4.12 – 4.54	(2.191 0.019 0.020)×10^{0}	(1.447 0.050 0.024)×10^{-1}	(6.670 0.250 0.046)×10^{-2}
4.54 – 5.00	(1.716 0.015 0.017)×10^{0}	(1.090 0.039 0.018)×10^{-1}	(6.335 0.250 0.040)×10^{-2}
5.00 – 5.49	(1.368 0.012 0.014)×10^{0}	(8.751 0.320 0.150)×10^{-2}	(6.498 0.250 0.037)×10^{-2}
5.49 – 6.00	(1.080 0.010 0.011)×10^{0}	(6.909 0.260 0.120)×10^{-2}	(6.425 0.260 0.032)×10^{-2}
6.00 – 6.54	(8.578 0.079 0.093)×10^{-1}	(5.034 0.200 0.092)×10^{-2}	(6.046 0.260 0.027)×10^{-2}
6.54 – 7.10	(6.545 0.064 0.074)×10^{-1}	(4.147 0.170 0.077)×10^{-2}	(6.317 0.280 0.024)×10^{-2}
7.10 – 7.69	(5.358 0.054 0.062)×10^{-1}	(2.946 0.130 0.056)×10^{-2}	(5.495 0.270 0.020)×10^{-2}
7.69 – 8.30	(4.156 0.045 0.049)×10^{-1}	(2.460 0.120 0.048)×10^{-2}	(5.890 0.300 0.020)×10^{-2}
8.30 – 8.95	(3.388 0.039 0.041)×10^{-1}	(1.915 0.096 0.038)×10^{-2}	(5.721 0.310 0.019)×10^{-2}
8.95 – 9.62	(2.665 0.033 0.033)×10^{-1}	(1.481 0.081 0.031)×10^{-2}	(5.869 0.340 0.020)×10^{-2}
9.62 – 10.32	(2.173 0.028 0.027)×10^{-1}	(1.341 0.074 0.028)×10^{-2}	(6.382 0.370 0.021)×10^{-2}
10.32 – 11.04	(1.739 0.024 0.022)×10^{-1}	(9.296 0.590 0.200)×10^{-3}	(5.450 0.370 0.018)×10^{-2}
11.04 – 11.80	(1.413 0.021 0.018)×10^{-1}	(7.069 0.490 0.160)×10^{-3}	(5.235 0.380 0.017)×10^{-2}
11.80 – 12.59	(1.144 0.018 0.015)×10^{-1}	(7.401 0.480 0.170)×10^{-3}	(6.087 0.440 0.019)×10^{-2}
12.59 – 13.41	(9.645 0.160 0.130)×10^{-2}	(6.063 0.420 0.140)×10^{-3}	(5.983 0.460 0.019)×10^{-2}
13.41 – 14.25	(7.564 0.140 0.100)×10^{-2}	(4.645 0.350 0.110)×10^{-3}	(6.486 0.530 0.021)×10^{-2}
14.25 – 15.14	(6.462 0.120 0.089)×10^{-2}	(3.847 0.310 0.092)×10^{-3}	(6.220 0.540 0.020)×10^{-2}
15.14 – 16.05	(5.195 0.110 0.073)×10^{-2}	(3.731 0.290 0.091)×10^{-3}	(7.142 0.620 0.023)×10^{-2}
16.05 – 17.00	(4.388 0.094 0.062)×10^{-2}	(2.728 0.240 0.067)×10^{-3}	(6.274 0.610 0.021)×10^{-2}
17.00 – 17.98	(3.595 0.082 0.051)×10^{-2}	(2.212 0.210 0.055)×10^{-3}	(6.649 0.680 0.022)×10^{-2}
17.98 – 18.99	(2.889 0.071 0.042)×10^{-2}	(2.105 0.200 0.053)×10^{-3}	(7.278 0.770 0.024)×10^{-2}
18.99 – 20.04	(2.536 0.065 0.037)×10^{-2}	(1.434 0.160 0.036)×10^{-3}	(5.821 0.700 0.020)×10^{-2}
20.04 – 21.13	(2.041 0.056 0.030)×10^{-2}	(1.316 0.150 0.033)×10^{-3}	(6.079 0.780 0.021)×10^{-2}
21.13 – 22.25	(1.816 0.051 0.027)×10^{-2}	(1.109 0.130 0.028)×10^{-3}	(6.184 0.800 0.021)×10^{-2}
22.25 – 23.42	(1.535 0.045 0.023)×10^{-2}	(1.036 0.120 0.026)×10^{-3}	(7.051 0.890 0.024)×10^{-2}
23.42 – 24.62	(1.260 0.039 0.019)×10^{-2}	(7.802 1.000 0.200)×10^{-4}	(6.631 0.920 0.023)×10^{-2}
24.62 – 25.90	(1.126 0.035 0.017)×10^{-2}	(7.852 0.970 0.200)×10^{-4}	(7.691 1.000 0.026)×10^{-2}

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TABLE SM LXXI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(8.918\ 0.300\ 0.140)\times10^{-3}$	$(7.696\ 0.910\ 0.200)\times10^{-4}$	$(8.414\ 1.100\ 0.029)\times10^{-2}$
27.25 – 28.68	$(7.969\ 0.270\ 0.120)\times10^{-3}$	$(4.827\ 0.700\ 0.120)\times10^{-4}$	$(5.534\ 0.920\ 0.019)\times10^{-2}$
28.68 – 30.21	$(6.536\ 0.240\ 0.100)\times10^{-3}$	$(4.602\ 0.660\ 0.120)\times10^{-4}$	$(6.757\ 1.100\ 0.023)\times10^{-2}$
30.21 – 31.82	$(5.137\ 0.200\ 0.081)\times10^{-3}$	$(4.007\ 0.590\ 0.100)\times10^{-4}$	$(8.804\ 1.400\ 0.031)\times10^{-2}$
31.82 – 33.53	$(4.813\ 0.190\ 0.077)\times10^{-3}$	$(3.257\ 0.510\ 0.084)\times10^{-4}$	$(7.064\ 1.200\ 0.025)\times10^{-2}$
33.53 – 35.36	$(3.881\ 0.160\ 0.063)\times10^{-3}$	$(3.684\ 0.530\ 0.095)\times10^{-4}$	$(10.36\ 1.600\ 0.037)\times10^{-2}$
35.36 – 37.31	$(3.461\ 0.150\ 0.057)\times10^{-3}$	$(2.522\ 0.430\ 0.065)\times10^{-4}$	$(6.341\ 1.300\ 0.023)\times10^{-2}$
37.31 – 39.39	$(2.807\ 0.130\ 0.046)\times10^{-3}$	$(2.388\ 0.400\ 0.061)\times10^{-4}$	$(8.588\ 1.600\ 0.032)\times10^{-2}$
39.39 – 41.61	$(2.690\ 0.120\ 0.045)\times10^{-3}$	$(2.348\ 0.380\ 0.060)\times10^{-4}$	$(9.331\ 1.600\ 0.036)\times10^{-2}$
41.61 – 44.00	$(1.829\ 0.099\ 0.031)\times10^{-3}$	$(2.423\ 0.370\ 0.062)\times10^{-4}$	$(13.29\ 2.400\ 0.052)\times10^{-2}$
44.00 – 46.57	$(1.706\ 0.093\ 0.029)\times10^{-3}$	$(1.689\ 0.300\ 0.043)\times10^{-4}$	$(8.985\ 1.900\ 0.036)\times10^{-2}$
46.57 – 49.33	$(1.336\ 0.080\ 0.023)\times10^{-3}$	$(1.212\ 0.250\ 0.031)\times10^{-4}$	$(9.546\ 2.200\ 0.040)\times10^{-2}$

TABLE SM LXXII: For Bartels Rotation 2498 (September 09, 2016 – October 05, 2016), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	$(1.652\ 0.029\ 0.028)\times10^{1}$	$(2.797\ 0.120\ 0.050)\times10^{0}$	$(16.50\ 0.810\ 0.190)\times10^{-2}$
1.22 – 1.46	$(1.494\ 0.021\ 0.022)\times10^{1}$	$(2.048\ 0.081\ 0.031)\times10^{0}$	$(13.81\ 0.600\ 0.150)\times10^{-2}$
1.46 – 1.72	$(1.264\ 0.015\ 0.016)\times10^{1}$	$(1.703\ 0.056\ 0.024)\times10^{0}$	$(13.75\ 0.500\ 0.150)\times10^{-2}$
1.72 – 2.00	$(1.041\ 0.010\ 0.012)\times10^{1}$	$(1.251\ 0.037\ 0.017)\times10^{0}$	$(12.17\ 0.400\ 0.130)\times10^{-2}$
2.00 – 2.31	$(8.408\ 0.075\ 0.084)\times10^{0}$	$(8.673\ 0.250\ 0.110)\times10^{-1}$	$(10.37\ 0.330\ 0.100)\times10^{-2}$
2.31 – 2.65	$(6.748\ 0.056\ 0.062)\times10^{0}$	$(6.198\ 0.170\ 0.083)\times10^{-1}$	$(9.210\ 0.290\ 0.088)\times10^{-2}$
2.65 – 3.00	$(5.422\ 0.044\ 0.048)\times10^{0}$	$(4.606\ 0.130\ 0.064)\times10^{-1}$	$(8.664\ 0.270\ 0.079)\times10^{-2}$
3.00 – 3.36	$(4.352\ 0.035\ 0.039)\times10^{0}$	$(3.316\ 0.100\ 0.049)\times10^{-1}$	$(7.744\ 0.260\ 0.067)\times10^{-2}$
3.36 – 3.73	$(3.420\ 0.028\ 0.031)\times10^{0}$	$(2.688\ 0.083\ 0.041)\times10^{-1}$	$(8.064\ 0.270\ 0.065)\times10^{-2}$
3.73 – 4.12	$(2.801\ 0.023\ 0.025)\times10^{0}$	$(2.077\ 0.066\ 0.033)\times10^{-1}$	$(7.405\ 0.260\ 0.056)\times10^{-2}$
4.12 – 4.54	$(2.186\ 0.019\ 0.020)\times10^{0}$	$(1.468\ 0.050\ 0.024)\times10^{-1}$	$(6.786\ 0.250\ 0.047)\times10^{-2}$
4.54 – 5.00	$(1.732\ 0.015\ 0.017)\times10^{0}$	$(1.048\ 0.038\ 0.018)\times10^{-1}$	$(6.001\ 0.240\ 0.038)\times10^{-2}$
5.00 – 5.49	$(1.368\ 0.012\ 0.014)\times10^{0}$	$(9.647\ 0.330\ 0.170)\times10^{-2}$	$(7.193\ 0.270\ 0.041)\times10^{-2}$
5.49 – 6.00	$(1.073\ 0.010\ 0.011)\times10^{0}$	$(6.628\ 0.250\ 0.120)\times10^{-2}$	$(6.115\ 0.250\ 0.031)\times10^{-2}$
6.00 – 6.54	$(8.435\ 0.078\ 0.092)\times10^{-1}$	$(4.867\ 0.200\ 0.089)\times10^{-2}$	$(5.889\ 0.250\ 0.026)\times10^{-2}$
6.54 – 7.10	$(6.598\ 0.064\ 0.074)\times10^{-1}$	$(4.003\ 0.170\ 0.075)\times10^{-2}$	$(6.436\ 0.280\ 0.025)\times10^{-2}$
7.10 – 7.69	$(5.397\ 0.054\ 0.062)\times10^{-1}$	$(3.060\ 0.140\ 0.058)\times10^{-2}$	$(5.503\ 0.270\ 0.020)\times10^{-2}$
7.69 – 8.30	$(4.219\ 0.046\ 0.050)\times10^{-1}$	$(2.513\ 0.120\ 0.049)\times10^{-2}$	$(5.832\ 0.300\ 0.020)\times10^{-2}$
8.30 – 8.95	$(3.373\ 0.038\ 0.041)\times10^{-1}$	$(1.881\ 0.095\ 0.038)\times10^{-2}$	$(5.415\ 0.300\ 0.018)\times10^{-2}$
8.95 – 9.62	$(2.669\ 0.033\ 0.033)\times10^{-1}$	$(1.774\ 0.088\ 0.037)\times10^{-2}$	$(6.930\ 0.370\ 0.023)\times10^{-2}$
9.62 – 10.32	$(2.231\ 0.028\ 0.028)\times10^{-1}$	$(1.280\ 0.072\ 0.027)\times10^{-2}$	$(5.833\ 0.350\ 0.019)\times10^{-2}$
10.32 – 11.04	$(1.769\ 0.024\ 0.023)\times10^{-1}$	$(1.063\ 0.062\ 0.023)\times10^{-2}$	$(5.774\ 0.380\ 0.019)\times10^{-2}$
11.04 – 11.80	$(1.428\ 0.021\ 0.019)\times10^{-1}$	$(7.771\ 0.510\ 0.170)\times10^{-3}$	$(5.565\ 0.390\ 0.018)\times10^{-2}$
11.80 – 12.59	$(1.148\ 0.018\ 0.015)\times10^{-1}$	$(6.444\ 0.440\ 0.150)\times10^{-3}$	$(5.808\ 0.430\ 0.019)\times10^{-2}$
12.59 – 13.41	$(9.323\ 0.160\ 0.130)\times10^{-2}$	$(5.179\ 0.380\ 0.120)\times10^{-3}$	$(5.649\ 0.450\ 0.018)\times10^{-2}$
13.41 – 14.25	$(7.378\ 0.130\ 0.100)\times10^{-2}$	$(3.966\ 0.320\ 0.094)\times10^{-3}$	$(5.725\ 0.500\ 0.018)\times10^{-2}$
14.25 – 15.14	$(6.077\ 0.120\ 0.084)\times10^{-2}$	$(4.087\ 0.310\ 0.098)\times10^{-3}$	$(6.914\ 0.580\ 0.022)\times10^{-2}$
15.14 – 16.05	$(5.159\ 0.100\ 0.072)\times10^{-2}$	$(3.069\ 0.260\ 0.075)\times10^{-3}$	$(5.785\ 0.560\ 0.019)\times10^{-2}$
16.05 – 17.00	$(4.321\ 0.092\ 0.061)\times10^{-2}$	$(2.875\ 0.250\ 0.071)\times10^{-3}$	$(6.506\ 0.620\ 0.021)\times10^{-2}$
17.00 – 17.98	$(3.620\ 0.082\ 0.052)\times10^{-2}$	$(2.231\ 0.210\ 0.055)\times10^{-3}$	$(5.917\ 0.630\ 0.020)\times10^{-2}$
17.98 – 18.99	$(3.048\ 0.073\ 0.044)\times10^{-2}$	$(1.949\ 0.190\ 0.049)\times10^{-3}$	$(6.338\ 0.690\ 0.021)\times10^{-2}$
18.99 – 20.04	$(2.527\ 0.064\ 0.037)\times10^{-2}$	$(1.840\ 0.180\ 0.046)\times10^{-3}$	$(7.358\ 0.790\ 0.025)\times10^{-2}$
20.04 – 21.13	$(2.042\ 0.056\ 0.030)\times10^{-2}$	$(1.156\ 0.140\ 0.029)\times10^{-3}$	$(5.640\ 0.740\ 0.019)\times10^{-2}$
21.13 – 22.25	$(1.820\ 0.051\ 0.027)\times10^{-2}$	$(1.006\ 0.120\ 0.026)\times10^{-3}$	$(5.745\ 0.770\ 0.020)\times10^{-2}$
22.25 – 23.42	$(1.488\ 0.044\ 0.022)\times10^{-2}$	$(1.011\ 0.120\ 0.026)\times10^{-3}$	$(6.694\ 0.890\ 0.023)\times10^{-2}$
23.42 – 24.62	$(1.224\ 0.039\ 0.019)\times10^{-2}$	$(8.088\ 1.000\ 0.210)\times10^{-4}$	$(7.474\ 1.000\ 0.026)\times10^{-2}$
24.62 – 25.90	$(1.101\ 0.035\ 0.017)\times10^{-2}$	$(8.171\ 0.980\ 0.210)\times10^{-4}$	$(7.257\ 0.970\ 0.025)\times10^{-2}$

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TABLE SM LXXII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(8.814\ 0.300\ 0.140)\times10^{-3}$	$(6.216\ 0.820\ 0.160)\times10^{-4}$	$(7.889\ 1.100\ 0.027)\times10^{-2}$
27.25 – 28.68	$(7.623\ 0.270\ 0.120)\times10^{-3}$	$(6.387\ 0.800\ 0.160)\times10^{-4}$	$(8.409\ 1.200\ 0.029)\times10^{-2}$
28.68 – 30.21	$(6.299\ 0.230\ 0.099)\times10^{-3}$	$(4.723\ 0.660\ 0.120)\times10^{-4}$	$(7.832\ 1.200\ 0.027)\times10^{-2}$
30.21 – 31.82	$(5.541\ 0.210\ 0.088)\times10^{-3}$	$(5.112\ 0.660\ 0.130)\times10^{-4}$	$(9.433\ 1.400\ 0.033)\times10^{-2}$
31.82 – 33.53	$(4.574\ 0.180\ 0.073)\times10^{-3}$	$(4.074\ 0.570\ 0.100)\times10^{-4}$	$(8.341\ 1.300\ 0.030)\times10^{-2}$
33.53 – 35.36	$(3.999\ 0.170\ 0.065)\times10^{-3}$	$(3.874\ 0.530\ 0.099)\times10^{-4}$	$(10.89\ 1.600\ 0.039)\times10^{-2}$
35.36 – 37.31	$(3.300\ 0.150\ 0.054)\times10^{-3}$	$(2.510\ 0.420\ 0.064)\times10^{-4}$	$(7.315\ 1.400\ 0.027)\times10^{-2}$
37.31 – 39.39	$(2.618\ 0.130\ 0.043)\times10^{-3}$	$(2.087\ 0.370\ 0.054)\times10^{-4}$	$(8.453\ 1.600\ 0.032)\times10^{-2}$
39.39 – 41.61	$(2.338\ 0.120\ 0.039)\times10^{-3}$	$(1.622\ 0.310\ 0.042)\times10^{-4}$	$(6.858\ 1.500\ 0.026)\times10^{-2}$
41.61 – 44.00	$(2.051\ 0.100\ 0.035)\times10^{-3}$	$(1.838\ 0.330\ 0.047)\times10^{-4}$	$(8.734\ 1.800\ 0.034)\times10^{-2}$
44.00 – 46.57	$(1.670\ 0.091\ 0.029)\times10^{-3}$	$(1.231\ 0.260\ 0.032)\times10^{-4}$	$(8.015\ 1.800\ 0.033)\times10^{-2}$
46.57 – 49.33	$(1.597\ 0.086\ 0.028)\times10^{-3}$	$(1.432\ 0.270\ 0.037)\times10^{-4}$	$(9.138\ 1.900\ 0.038)\times10^{-2}$

TABLE SM LXXIII: For Bartels Rotation 2499 (October 06, 2016 – November 01, 2016), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.746 0.030 0.030)×10^{1}	(3.013 0.130 0.054)×10^{0}	(17.18 0.830 0.190)×10^{-2}
1.22 – 1.46	(1.529 0.022 0.022)×10^{1}	(2.288 0.086 0.035)×10^{0}	(14.97 0.630 0.160)×10^{-2}
1.46 – 1.72	(1.322 0.016 0.017)×10^{1}	(1.775 0.059 0.025)×10^{0}	(13.53 0.500 0.140)×10^{-2}
1.72 – 2.00	(1.073 0.011 0.012)×10^{1}	(1.243 0.039 0.017)×10^{0}	(11.78 0.410 0.120)×10^{-2}
2.00 – 2.31	(8.612 0.079 0.086)×10^{0}	(8.741 0.260 0.120)×10^{-1}	(10.31 0.340 0.100)×10^{-2}
2.31 – 2.65	(6.944 0.059 0.064)×10^{0}	(6.295 0.180 0.085)×10^{-1}	(9.241 0.290 0.088)×10^{-2}
2.65 – 3.00	(5.627 0.046 0.050)×10^{0}	(4.913 0.140 0.069)×10^{-1}	(8.847 0.280 0.081)×10^{-2}
3.00 – 3.36	(4.445 0.037 0.039)×10^{0}	(3.658 0.110 0.054)×10^{-1}	(8.262 0.270 0.071)×10^{-2}
3.36 – 3.73	(3.544 0.030 0.032)×10^{0}	(2.643 0.084 0.040)×10^{-1}	(7.516 0.260 0.061)×10^{-2}
3.73 – 4.12	(2.832 0.024 0.026)×10^{0}	(2.064 0.067 0.033)×10^{-1}	(7.357 0.260 0.055)×10^{-2}
4.12 – 4.54	(2.234 0.019 0.021)×10^{0}	(1.598 0.053 0.026)×10^{-1}	(7.162 0.260 0.050)×10^{-2}
4.54 – 5.00	(1.798 0.015 0.017)×10^{0}	(1.185 0.041 0.020)×10^{-1}	(6.754 0.250 0.043)×10^{-2}
5.00 – 5.49	(1.389 0.012 0.014)×10^{0}	(8.612 0.320 0.150)×10^{-2}	(6.376 0.250 0.036)×10^{-2}
5.49 – 6.00	(1.102 0.010 0.012)×10^{0}	(6.376 0.250 0.110)×10^{-2}	(5.725 0.240 0.029)×10^{-2}
6.00 – 6.54	(8.653 0.080 0.094)×10^{-1}	(5.452 0.210 0.100)×10^{-2}	(6.301 0.260 0.028)×10^{-2}
6.54 – 7.10	(6.746 0.066 0.076)×10^{-1}	(4.000 0.170 0.075)×10^{-2}	(5.925 0.270 0.023)×10^{-2}
7.10 – 7.69	(5.451 0.055 0.063)×10^{-1}	(3.089 0.140 0.059)×10^{-2}	(5.731 0.270 0.020)×10^{-2}
7.69 – 8.30	(4.300 0.047 0.051)×10^{-1}	(2.466 0.120 0.048)×10^{-2}	(6.086 0.300 0.021)×10^{-2}
8.30 – 8.95	(3.381 0.039 0.041)×10^{-1}	(1.826 0.095 0.037)×10^{-2}	(5.255 0.300 0.018)×10^{-2}
8.95 – 9.62	(2.739 0.033 0.034)×10^{-1}	(1.727 0.088 0.036)×10^{-2}	(6.086 0.340 0.020)×10^{-2}
9.62 – 10.32	(2.227 0.029 0.028)×10^{-1}	(1.160 0.069 0.025)×10^{-2}	(5.300 0.340 0.017)×10^{-2}
10.32 – 11.04	(1.760 0.025 0.023)×10^{-1}	(1.117 0.064 0.024)×10^{-2}	(6.160 0.390 0.020)×10^{-2}
11.04 – 11.80	(1.422 0.021 0.019)×10^{-1}	(8.092 0.520 0.180)×10^{-3}	(5.939 0.410 0.019)×10^{-2}
11.80 – 12.59	(1.166 0.018 0.015)×10^{-1}	(7.256 0.480 0.160)×10^{-3}	(6.246 0.450 0.020)×10^{-2}
12.59 – 13.41	(9.483 0.160 0.130)×10^{-2}	(5.231 0.390 0.120)×10^{-3}	(5.347 0.440 0.017)×10^{-2}
13.41 – 14.25	(7.639 0.140 0.100)×10^{-2}	(4.636 0.360 0.110)×10^{-3}	(6.073 0.520 0.019)×10^{-2}
14.25 – 15.14	(6.434 0.120 0.089)×10^{-2}	(4.208 0.320 0.100)×10^{-3}	(6.523 0.550 0.021)×10^{-2}
15.14 – 16.05	(5.228 0.110 0.073)×10^{-2}	(3.152 0.270 0.077)×10^{-3}	(5.906 0.570 0.019)×10^{-2}
16.05 – 17.00	(4.211 0.092 0.060)×10^{-2}	(2.465 0.230 0.061)×10^{-3}	(5.720 0.590 0.019)×10^{-2}
17.00 – 17.98	(3.546 0.082 0.051)×10^{-2}	(2.294 0.220 0.057)×10^{-3}	(6.544 0.680 0.022)×10^{-2}
17.98 – 18.99	(2.984 0.073 0.043)×10^{-2}	(1.766 0.190 0.044)×10^{-3}	(5.824 0.670 0.019)×10^{-2}
18.99 – 20.04	(2.486 0.064 0.036)×10^{-2}	(1.671 0.170 0.042)×10^{-3}	(6.843 0.770 0.023)×10^{-2}
20.04 – 21.13	(2.158 0.058 0.032)×10^{-2}	(1.307 0.150 0.033)×10^{-3}	(6.365 0.770 0.022)×10^{-2}
21.13 – 22.25	(1.767 0.050 0.026)×10^{-2}	(9.899 1.300 0.250)×10^{-4}	(5.844 0.800 0.020)×10^{-2}
22.25 – 23.42	(1.422 0.043 0.021)×10^{-2}	(1.047 0.120 0.027)×10^{-3}	(7.044 0.920 0.024)×10^{-2}
23.42 – 24.62	(1.269 0.040 0.019)×10^{-2}	(7.417 1.000 0.190)×10^{-4}	(6.132 0.890 0.021)×10^{-2}
24.62 – 25.90	(1.096 0.035 0.017)×10^{-2}	(7.551 0.950 0.190)×10^{-4}	(7.149 0.980 0.024)×10^{-2}

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TABLE SM LXXIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.382\ 0.310\ 0.140)\times10^{-3}$	$(7.388\ 0.910\ 0.190)\times10^{-4}$	$(7.900\ 1.100\ 0.027)\times10^{-2}$
27.25 – 28.68	$(8.093\ 0.280\ 0.130)\times10^{-3}$	$(6.926\ 0.830\ 0.180)\times10^{-4}$	$(7.783\ 1.100\ 0.027)\times10^{-2}$
28.68 – 30.21	$(6.535\ 0.240\ 0.100)\times10^{-3}$	$(5.255\ 0.700\ 0.130)\times10^{-4}$	$(8.494\ 1.200\ 0.029)\times10^{-2}$
30.21 – 31.82	$(5.135\ 0.200\ 0.081)\times10^{-3}$	$(4.280\ 0.610\ 0.110)\times10^{-4}$	$(8.089\ 1.300\ 0.028)\times10^{-2}$
31.82 – 33.53	$(4.608\ 0.190\ 0.074)\times10^{-3}$	$(3.643\ 0.540\ 0.094)\times10^{-4}$	$(7.960\ 1.300\ 0.028)\times10^{-2}$
33.53 – 35.36	$(3.938\ 0.160\ 0.064)\times10^{-3}$	$(2.824\ 0.460\ 0.072)\times10^{-4}$	$(7.049\ 1.300\ 0.025)\times10^{-2}$
35.36 – 37.31	$(3.476\ 0.150\ 0.057)\times10^{-3}$	$(3.608\ 0.500\ 0.093)\times10^{-4}$	$(10.45\ 1.700\ 0.038)\times10^{-2}$
37.31 – 39.39	$(2.780\ 0.130\ 0.046)\times10^{-3}$	$(2.716\ 0.430\ 0.070)\times10^{-4}$	$(9.325\ 1.700\ 0.035)\times10^{-2}$
39.39 – 41.61	$(2.379\ 0.120\ 0.040)\times10^{-3}$	$(1.989\ 0.350\ 0.051)\times10^{-4}$	$(9.543\ 1.800\ 0.037)\times10^{-2}$
41.61 – 44.00	$(2.085\ 0.110\ 0.035)\times10^{-3}$	$(1.160\ 0.260\ 0.030)\times10^{-4}$	$(5.620\ 1.400\ 0.022)\times10^{-2}$
44.00 – 46.57	$(1.783\ 0.095\ 0.030)\times10^{-3}$	$(1.464\ 0.290\ 0.038)\times10^{-4}$	$(9.631\ 2.000\ 0.039)\times10^{-2}$
46.57 – 49.33	$(1.405\ 0.082\ 0.024)\times10^{-3}$	$(1.287\ 0.260\ 0.033)\times10^{-4}$	$(9.577\ 2.100\ 0.040)\times10^{-2}$

TABLE SM LXXIV: For Bartels Rotation 2500 (November 02, 2016 – November 28, 2016), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.839 0.030 0.031)×10^{1}	(3.257 0.130 0.059)×10^{0}	(18.03 0.810 0.200)×10^{-2}
1.22 – 1.46	(1.616 0.022 0.024)×10^{1}	(2.527 0.087 0.039)×10^{0}	(15.77 0.610 0.170)×10^{-2}
1.46 – 1.72	(1.343 0.015 0.017)×10^{1}	(1.879 0.058 0.026)×10^{0}	(14.05 0.480 0.150)×10^{-2}
1.72 – 2.00	(1.103 0.011 0.012)×10^{1}	(1.251 0.037 0.017)×10^{0}	(11.51 0.370 0.120)×10^{-2}
2.00 – 2.31	(8.902 0.077 0.089)×10^{0}	(9.213 0.250 0.120)×10^{-1}	(10.52 0.320 0.100)×10^{-2}
2.31 – 2.65	(7.137 0.057 0.065)×10^{0}	(6.581 0.180 0.088)×10^{-1}	(9.288 0.280 0.089)×10^{-2}
2.65 – 3.00	(5.725 0.045 0.051)×10^{0}	(4.925 0.140 0.069)×10^{-1}	(8.457 0.260 0.077)×10^{-2}
3.00 – 3.36	(4.520 0.036 0.040)×10^{0}	(3.601 0.110 0.053)×10^{-1}	(8.193 0.260 0.071)×10^{-2}
3.36 – 3.73	(3.584 0.029 0.032)×10^{0}	(2.750 0.084 0.042)×10^{-1}	(7.819 0.260 0.063)×10^{-2}
3.73 – 4.12	(2.891 0.024 0.026)×10^{0}	(2.117 0.067 0.034)×10^{-1}	(7.495 0.250 0.056)×10^{-2}
4.12 – 4.54	(2.296 0.019 0.021)×10^{0}	(1.572 0.052 0.026)×10^{-1}	(6.988 0.250 0.048)×10^{-2}
4.54 – 5.00	(1.791 0.015 0.017)×10^{0}	(1.129 0.040 0.019)×10^{-1}	(6.373 0.240 0.040)×10^{-2}
5.00 – 5.49	(1.429 0.012 0.014)×10^{0}	(9.310 0.330 0.160)×10^{-2}	(6.601 0.250 0.037)×10^{-2}
5.49 – 6.00	(1.110 0.010 0.012)×10^{0}	(6.723 0.250 0.120)×10^{-2}	(6.088 0.250 0.031)×10^{-2}
6.00 – 6.54	(8.845 0.080 0.096)×10^{-1}	(5.192 0.200 0.095)×10^{-2}	(5.995 0.250 0.027)×10^{-2}
6.54 – 7.10	(6.825 0.065 0.077)×10^{-1}	(4.161 0.170 0.078)×10^{-2}	(6.349 0.280 0.024)×10^{-2}
7.10 – 7.69	(5.538 0.055 0.064)×10^{-1}	(3.241 0.140 0.062)×10^{-2}	(5.942 0.280 0.021)×10^{-2}
7.69 – 8.30	(4.270 0.046 0.051)×10^{-1}	(2.786 0.120 0.055)×10^{-2}	(6.280 0.310 0.022)×10^{-2}
8.30 – 8.95	(3.444 0.039 0.042)×10^{-1}	(1.900 0.096 0.038)×10^{-2}	(5.768 0.310 0.020)×10^{-2}
8.95 – 9.62	(2.739 0.033 0.034)×10^{-1}	(1.389 0.078 0.029)×10^{-2}	(5.218 0.310 0.017)×10^{-2}
9.62 – 10.32	(2.169 0.028 0.027)×10^{-1}	(1.259 0.071 0.027)×10^{-2}	(5.969 0.360 0.020)×10^{-2}
10.32 – 11.04	(1.774 0.024 0.023)×10^{-1}	(1.012 0.061 0.022)×10^{-2}	(5.560 0.370 0.018)×10^{-2}
11.04 – 11.80	(1.432 0.021 0.019)×10^{-1}	(8.925 0.540 0.200)×10^{-3}	(6.378 0.420 0.021)×10^{-2}
11.80 – 12.59	(1.174 0.018 0.016)×10^{-1}	(7.340 0.470 0.170)×10^{-3}	(6.095 0.440 0.019)×10^{-2}
12.59 – 13.41	(9.444 0.160 0.130)×10^{-2}	(5.780 0.410 0.130)×10^{-3}	(5.895 0.460 0.019)×10^{-2}
13.41 – 14.25	(7.960 0.140 0.110)×10^{-2}	(5.251 0.380 0.120)×10^{-3}	(6.377 0.510 0.020)×10^{-2}
14.25 – 15.14	(6.348 0.120 0.088)×10^{-2}	(4.292 0.320 0.100)×10^{-3}	(6.765 0.560 0.022)×10^{-2}
15.14 – 16.05	(5.256 0.110 0.073)×10^{-2}	(3.493 0.280 0.085)×10^{-3}	(6.370 0.580 0.021)×10^{-2}
16.05 – 17.00	(4.443 0.094 0.063)×10^{-2}	(2.313 0.220 0.057)×10^{-3}	(5.036 0.540 0.017)×10^{-2}
17.00 – 17.98	(3.601 0.082 0.051)×10^{-2}	(2.422 0.220 0.060)×10^{-3}	(7.083 0.690 0.023)×10^{-2}
17.98 – 18.99	(3.025 0.073 0.044)×10^{-2}	(2.022 0.200 0.051)×10^{-3}	(6.923 0.720 0.023)×10^{-2}
18.99 – 20.04	(2.342 0.062 0.034)×10^{-2}	(1.530 0.170 0.039)×10^{-3}	(6.505 0.770 0.022)×10^{-2}
20.04 – 21.13	(2.142 0.057 0.032)×10^{-2}	(1.513 0.160 0.038)×10^{-3}	(6.983 0.810 0.024)×10^{-2}
21.13 – 22.25	(1.774 0.050 0.026)×10^{-2}	(1.210 0.140 0.031)×10^{-3}	(7.022 0.860 0.024)×10^{-2}
22.25 – 23.42	(1.511 0.044 0.023)×10^{-2}	(1.005 0.120 0.026)×10^{-3}	(6.100 0.830 0.021)×10^{-2}
23.42 – 24.62	(1.259 0.039 0.019)×10^{-2}	(8.505 1.000 0.220)×10^{-4}	(6.863 0.920 0.023)×10^{-2}
24.62 – 25.90	(1.089 0.035 0.017)×10^{-2}	(7.244 0.920 0.190)×10^{-4}	(7.105 0.960 0.024)×10^{-2}

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TABLE SM LXXIV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.660\ 0.310\ 0.150)\times10^{-3}$	$(7.968\ 0.930\ 0.200)\times10^{-4}$	$(8.233\ 1.100\ 0.028)\times10^{-2}$
27.25 – 28.68	$(7.763\ 0.270\ 0.120)\times10^{-3}$	$(5.733\ 0.760\ 0.150)\times10^{-4}$	$(7.739\ 1.100\ 0.027)\times10^{-2}$
28.68 – 30.21	$(6.591\ 0.240\ 0.100)\times10^{-3}$	$(5.574\ 0.710\ 0.140)\times10^{-4}$	$(8.531\ 1.200\ 0.030)\times10^{-2}$
30.21 – 31.82	$(5.730\ 0.210\ 0.091)\times10^{-3}$	$(5.026\ 0.650\ 0.130)\times10^{-4}$	$(8.188\ 1.200\ 0.029)\times10^{-2}$
31.82 – 33.53	$(4.537\ 0.180\ 0.073)\times10^{-3}$	$(3.102\ 0.500\ 0.080)\times10^{-4}$	$(6.337\ 1.200\ 0.022)\times10^{-2}$
33.53 – 35.36	$(3.967\ 0.160\ 0.064)\times10^{-3}$	$(2.695\ 0.440\ 0.069)\times10^{-4}$	$(4.811\ 1.100\ 0.017)\times10^{-2}$
35.36 – 37.31	$(3.357\ 0.150\ 0.055)\times10^{-3}$	$(3.107\ 0.460\ 0.080)\times10^{-4}$	$(8.529\ 1.500\ 0.031)\times10^{-2}$
37.31 – 39.39	$(2.733\ 0.130\ 0.045)\times10^{-3}$	$(2.460\ 0.400\ 0.063)\times10^{-4}$	$(7.914\ 1.500\ 0.030)\times10^{-2}$
39.39 – 41.61	$(2.405\ 0.120\ 0.040)\times10^{-3}$	$(2.058\ 0.360\ 0.053)\times10^{-4}$	$(8.472\ 1.700\ 0.032)\times10^{-2}$
41.61 – 44.00	$(1.815\ 0.098\ 0.031)\times10^{-3}$	$(1.386\ 0.280\ 0.036)\times10^{-4}$	$(6.884\ 1.600\ 0.027)\times10^{-2}$
44.00 – 46.57	$(1.726\ 0.093\ 0.030)\times10^{-3}$	$(1.705\ 0.300\ 0.044)\times10^{-4}$	$(9.205\ 1.900\ 0.037)\times10^{-2}$
46.57 – 49.33	$(1.467\ 0.083\ 0.025)\times10^{-3}$	$(1.644\ 0.290\ 0.042)\times10^{-4}$	$(12.39\ 2.400\ 0.052)\times10^{-2}$

TABLE SM LXXV: For Bartels Rotation 2501 (November 29, 2016 – December 25, 2016), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.867 0.030 0.032)×10^{1}	(3.546 0.140 0.064)×10^{0}	(18.96 0.830 0.210)×10^{-2}
1.22 – 1.46	(1.648 0.022 0.024)×10^{1}	(2.449 0.086 0.037)×10^{0}	(14.51 0.580 0.160)×10^{-2}
1.46 – 1.72	(1.379 0.015 0.018)×10^{1}	(1.740 0.055 0.024)×10^{0}	(12.84 0.450 0.140)×10^{-2}
1.72 – 2.00	(1.130 0.011 0.013)×10^{1}	(1.274 0.037 0.017)×10^{0}	(11.32 0.360 0.120)×10^{-2}
2.00 – 2.31	(9.104 0.077 0.091)×10^{0}	(9.580 0.250 0.130)×10^{-1}	(10.65 0.310 0.110)×10^{-2}
2.31 – 2.65	(7.250 0.057 0.066)×10^{0}	(6.951 0.180 0.093)×10^{-1}	(9.676 0.280 0.093)×10^{-2}
2.65 – 3.00	(5.763 0.045 0.051)×10^{0}	(4.822 0.130 0.067)×10^{-1}	(8.397 0.260 0.076)×10^{-2}
3.00 – 3.36	(4.599 0.036 0.041)×10^{0}	(3.907 0.110 0.057)×10^{-1}	(8.303 0.250 0.072)×10^{-2}
3.36 – 3.73	(3.659 0.029 0.033)×10^{0}	(2.770 0.084 0.042)×10^{-1}	(7.709 0.250 0.062)×10^{-2}
3.73 – 4.12	(2.931 0.024 0.027)×10^{0}	(2.111 0.066 0.033)×10^{-1}	(7.182 0.240 0.054)×10^{-2}
4.12 – 4.54	(2.313 0.019 0.021)×10^{0}	(1.604 0.052 0.026)×10^{-1}	(7.102 0.250 0.049)×10^{-2}
4.54 – 5.00	(1.815 0.015 0.017)×10^{0}	(1.187 0.040 0.020)×10^{-1}	(6.563 0.240 0.041)×10^{-2}
5.00 – 5.49	(1.441 0.012 0.014)×10^{0}	(9.100 0.320 0.160)×10^{-2}	(6.280 0.240 0.036)×10^{-2}
5.49 – 6.00	(1.139 0.010 0.012)×10^{0}	(7.196 0.260 0.130)×10^{-2}	(6.449 0.250 0.032)×10^{-2}
6.00 – 6.54	(8.830 0.080 0.096)×10^{-1}	(5.511 0.210 0.100)×10^{-2}	(6.386 0.260 0.028)×10^{-2}
6.54 – 7.10	(6.915 0.066 0.078)×10^{-1}	(3.962 0.160 0.074)×10^{-2}	(5.734 0.260 0.022)×10^{-2}
7.10 – 7.69	(5.457 0.055 0.063)×10^{-1}	(3.092 0.140 0.059)×10^{-2}	(5.783 0.270 0.021)×10^{-2}
7.69 – 8.30	(4.349 0.046 0.052)×10^{-1}	(2.486 0.120 0.049)×10^{-2}	(5.953 0.290 0.021)×10^{-2}
8.30 – 8.95	(3.441 0.039 0.042)×10^{-1}	(1.942 0.096 0.039)×10^{-2}	(5.612 0.300 0.019)×10^{-2}
8.95 – 9.62	(2.784 0.033 0.034)×10^{-1}	(1.727 0.087 0.036)×10^{-2}	(6.263 0.340 0.021)×10^{-2}
9.62 – 10.32	(2.189 0.028 0.028)×10^{-1}	(1.226 0.070 0.026)×10^{-2}	(5.980 0.360 0.020)×10^{-2}
10.32 – 11.04	(1.795 0.025 0.023)×10^{-1}	(1.013 0.061 0.022)×10^{-2}	(5.605 0.370 0.018)×10^{-2}
11.04 – 11.80	(1.446 0.021 0.019)×10^{-1}	(9.376 0.550 0.210)×10^{-3}	(6.736 0.430 0.022)×10^{-2}
11.80 – 12.59	(1.146 0.018 0.015)×10^{-1}	(7.307 0.470 0.170)×10^{-3}	(6.505 0.460 0.021)×10^{-2}
12.59 – 13.41	(9.463 0.160 0.130)×10^{-2}	(5.982 0.410 0.140)×10^{-3}	(6.295 0.470 0.020)×10^{-2}
13.41 – 14.25	(7.651 0.140 0.100)×10^{-2}	(4.345 0.340 0.100)×10^{-3}	(5.819 0.490 0.019)×10^{-2}
14.25 – 15.14	(6.316 0.120 0.087)×10^{-2}	(4.288 0.320 0.100)×10^{-3}	(6.127 0.530 0.020)×10^{-2}
15.14 – 16.05	(5.254 0.110 0.073)×10^{-2}	(3.276 0.270 0.080)×10^{-3}	(6.143 0.570 0.020)×10^{-2}
16.05 – 17.00	(4.438 0.094 0.063)×10^{-2}	(2.919 0.250 0.072)×10^{-3}	(6.422 0.610 0.021)×10^{-2}
17.00 – 17.98	(3.521 0.081 0.050)×10^{-2}	(2.340 0.220 0.058)×10^{-3}	(6.733 0.680 0.022)×10^{-2}
17.98 – 18.99	(2.917 0.071 0.042)×10^{-2}	(1.812 0.190 0.045)×10^{-3}	(6.367 0.700 0.021)×10^{-2}
18.99 – 20.04	(2.624 0.065 0.038)×10^{-2}	(1.783 0.180 0.045)×10^{-3}	(6.502 0.730 0.022)×10^{-2}
20.04 – 21.13	(2.196 0.058 0.032)×10^{-2}	(1.783 0.170 0.045)×10^{-3}	(7.703 0.840 0.026)×10^{-2}
21.13 – 22.25	(1.714 0.049 0.025)×10^{-2}	(1.125 0.130 0.029)×10^{-3}	(6.612 0.850 0.022)×10^{-2}
22.25 – 23.42	(1.522 0.045 0.023)×10^{-2}	(9.598 1.200 0.250)×10^{-4}	(6.742 0.890 0.023)×10^{-2}
23.42 – 24.62	(1.257 0.039 0.019)×10^{-2}	(9.044 1.100 0.230)×10^{-4}	(6.813 0.920 0.023)×10^{-2}
24.62 – 25.90	(1.062 0.034 0.016)×10^{-2}	(8.636 1.000 0.220)×10^{-4}	(8.881 1.100 0.030)×10^{-2}

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TABLE SM LXXV – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.025\ 0.300\ 0.140)\times10^{-3}$	$(5.658\ 0.780\ 0.150)\times10^{-4}$	$(7.021\ 1.000\ 0.024)\times10^{-2}$
27.25 – 28.68	$(8.141\ 0.280\ 0.130)\times10^{-3}$	$(6.499\ 0.810\ 0.170)\times10^{-4}$	$(8.611\ 1.200\ 0.030)\times10^{-2}$
28.68 – 30.21	$(6.765\ 0.240\ 0.110)\times10^{-3}$	$(4.023\ 0.610\ 0.100)\times10^{-4}$	$(6.272\ 1.000\ 0.022)\times10^{-2}$
30.21 – 31.82	$(5.556\ 0.210\ 0.088)\times10^{-3}$	$(4.961\ 0.650\ 0.130)\times10^{-4}$	$(8.617\ 1.300\ 0.030)\times10^{-2}$
31.82 – 33.53	$(5.094\ 0.190\ 0.082)\times10^{-3}$	$(2.618\ 0.460\ 0.067)\times10^{-4}$	$(5.329\ 1.000\ 0.019)\times10^{-2}$
33.53 – 35.36	$(4.039\ 0.170\ 0.065)\times10^{-3}$	$(3.451\ 0.510\ 0.089)\times10^{-4}$	$(8.717\ 1.400\ 0.031)\times10^{-2}$
35.36 – 37.31	$(3.637\ 0.150\ 0.059)\times10^{-3}$	$(2.174\ 0.400\ 0.056)\times10^{-4}$	$(5.720\ 1.200\ 0.021)\times10^{-2}$
37.31 – 39.39	$(2.822\ 0.130\ 0.047)\times10^{-3}$	$(1.825\ 0.360\ 0.047)\times10^{-4}$	$(6.625\ 1.400\ 0.025)\times10^{-2}$
39.39 – 41.61	$(2.461\ 0.120\ 0.041)\times10^{-3}$	$(2.213\ 0.370\ 0.057)\times10^{-4}$	$(9.022\ 1.700\ 0.035)\times10^{-2}$
41.61 – 44.00	$(1.983\ 0.100\ 0.033)\times10^{-3}$	$(1.740\ 0.310\ 0.045)\times10^{-4}$	$(9.555\ 1.900\ 0.038)\times10^{-2}$
44.00 – 46.57	$(1.605\ 0.089\ 0.027)\times10^{-3}$	$(1.627\ 0.300\ 0.042)\times10^{-4}$	$(10.75\ 2.100\ 0.044)\times10^{-2}$
46.57 – 49.33	$(1.489\ 0.083\ 0.026)\times10^{-3}$	$(8.472\ 2.100\ 0.220)\times10^{-5}$	$(6.899\ 1.700\ 0.029)\times10^{-2}$

TABLE SM LXXVI: For Bartels Rotation 2502 (December 26, 2016 – January 21, 2017), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(1.984 0.031 0.034)×10^{1}	(3.365 0.130 0.060)×10^{0}	(17.06 0.760 0.190)×10^{-2}
1.22 – 1.46	(1.633 0.022 0.024)×10^{1}	(2.622 0.090 0.040)×10^{0}	(16.11 0.630 0.180)×10^{-2}
1.46 – 1.72	(1.415 0.016 0.018)×10^{1}	(1.952 0.059 0.027)×10^{0}	(14.11 0.480 0.150)×10^{-2}
1.72 – 2.00	(1.147 0.011 0.013)×10^{1}	(1.415 0.039 0.019)×10^{0}	(12.48 0.390 0.130)×10^{-2}
2.00 – 2.31	(9.113 0.078 0.091)×10^{0}	(9.761 0.260 0.130)×10^{-1}	(10.90 0.320 0.110)×10^{-2}
2.31 – 2.65	(7.273 0.058 0.067)×10^{0}	(6.958 0.180 0.093)×10^{-1}	(9.465 0.280 0.091)×10^{-2}
2.65 – 3.00	(5.858 0.046 0.052)×10^{0}	(5.120 0.140 0.072)×10^{-1}	(8.590 0.260 0.078)×10^{-2}
3.00 – 3.36	(4.636 0.037 0.041)×10^{0}	(3.499 0.100 0.051)×10^{-1}	(7.631 0.250 0.066)×10^{-2}
3.36 – 3.73	(3.715 0.030 0.033)×10^{0}	(2.738 0.084 0.042)×10^{-1}	(7.488 0.250 0.061)×10^{-2}
3.73 – 4.12	(2.903 0.024 0.026)×10^{0}	(2.127 0.067 0.034)×10^{-1}	(7.167 0.250 0.054)×10^{-2}
4.12 – 4.54	(2.332 0.019 0.022)×10^{0}	(1.627 0.053 0.027)×10^{-1}	(7.085 0.250 0.049)×10^{-2}
4.54 – 5.00	(1.803 0.015 0.017)×10^{0}	(1.198 0.041 0.020)×10^{-1}	(6.661 0.250 0.042)×10^{-2}
5.00 – 5.49	(1.435 0.012 0.014)×10^{0}	(9.516 0.330 0.170)×10^{-2}	(6.362 0.250 0.036)×10^{-2}
5.49 – 6.00	(1.130 0.010 0.012)×10^{0}	(7.139 0.260 0.130)×10^{-2}	(6.450 0.250 0.033)×10^{-2}
6.00 – 6.54	(8.799 0.080 0.096)×10^{-1}	(5.176 0.200 0.095)×10^{-2}	(5.944 0.250 0.026)×10^{-2}
6.54 – 7.10	(7.040 0.067 0.079)×10^{-1}	(4.087 0.170 0.076)×10^{-2}	(5.810 0.260 0.022)×10^{-2}
7.10 – 7.69	(5.517 0.055 0.064)×10^{-1}	(3.302 0.140 0.063)×10^{-2}	(6.019 0.280 0.021)×10^{-2}
7.69 – 8.30	(4.314 0.046 0.051)×10^{-1}	(2.636 0.120 0.052)×10^{-2}	(6.421 0.310 0.022)×10^{-2}
8.30 – 8.95	(3.479 0.039 0.042)×10^{-1}	(2.094 0.100 0.042)×10^{-2}	(6.182 0.320 0.021)×10^{-2}
8.95 – 9.62	(2.825 0.034 0.035)×10^{-1}	(1.627 0.085 0.034)×10^{-2}	(5.816 0.330 0.019)×10^{-2}
9.62 – 10.32	(2.179 0.028 0.027)×10^{-1}	(1.351 0.074 0.029)×10^{-2}	(6.281 0.370 0.021)×10^{-2}
10.32 – 11.04	(1.839 0.025 0.024)×10^{-1}	(1.032 0.062 0.022)×10^{-2}	(5.760 0.370 0.019)×10^{-2}
11.04 – 11.80	(1.453 0.021 0.019)×10^{-1}	(8.734 0.540 0.190)×10^{-3}	(6.252 0.420 0.020)×10^{-2}
11.80 – 12.59	(1.185 0.018 0.016)×10^{-1}	(7.245 0.470 0.160)×10^{-3}	(6.272 0.450 0.020)×10^{-2}
12.59 – 13.41	(9.651 0.160 0.130)×10^{-2}	(6.289 0.420 0.150)×10^{-3}	(6.374 0.480 0.020)×10^{-2}
13.41 – 14.25	(7.784 0.140 0.110)×10^{-2}	(4.405 0.340 0.100)×10^{-3}	(6.086 0.510 0.020)×10^{-2}
14.25 – 15.14	(6.374 0.120 0.088)×10^{-2}	(3.587 0.300 0.086)×10^{-3}	(5.577 0.500 0.018)×10^{-2}
15.14 – 16.05	(5.489 0.110 0.077)×10^{-2}	(3.159 0.270 0.077)×10^{-3}	(6.090 0.560 0.020)×10^{-2}
16.05 – 17.00	(4.397 0.094 0.062)×10^{-2}	(2.659 0.240 0.065)×10^{-3}	(6.259 0.610 0.021)×10^{-2}
17.00 – 17.98	(3.700 0.083 0.053)×10^{-2}	(2.583 0.230 0.064)×10^{-3}	(7.319 0.700 0.024)×10^{-2}
17.98 – 18.99	(3.117 0.074 0.045)×10^{-2}	(2.102 0.200 0.053)×10^{-3}	(7.141 0.730 0.024)×10^{-2}
18.99 – 20.04	(2.458 0.063 0.036)×10^{-2}	(1.794 0.180 0.045)×10^{-3}	(7.154 0.780 0.024)×10^{-2}
20.04 – 21.13	(2.160 0.057 0.032)×10^{-2}	(1.433 0.150 0.036)×10^{-3}	(7.090 0.810 0.024)×10^{-2}
21.13 – 22.25	(1.749 0.050 0.026)×10^{-2}	(1.005 0.130 0.026)×10^{-3}	(5.970 0.800 0.020)×10^{-2}
22.25 – 23.42	(1.521 0.045 0.023)×10^{-2}	(1.175 0.130 0.030)×10^{-3}	(8.039 0.970 0.027)×10^{-2}
23.42 – 24.62	(1.292 0.040 0.020)×10^{-2}	(8.772 1.100 0.220)×10^{-4}	(7.426 0.980 0.025)×10^{-2}
24.62 – 25.90	(1.089 0.035 0.017)×10^{-2}	(7.447 0.950 0.190)×10^{-4}	(6.694 0.950 0.023)×10^{-2}

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TABLE SM LXXVI – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(8.846\ 0.300\ 0.140)\times10^{-3}$	$(7.934\ 0.920\ 0.200)\times10^{-4}$	$(10.05\ 1.200\ 0.035)\times10^{-2}$
27.25 – 28.68	$(8.649\ 0.280\ 0.130)\times10^{-3}$	$(6.752\ 0.830\ 0.170)\times10^{-4}$	$(7.843\ 1.100\ 0.027)\times10^{-2}$
28.68 – 30.21	$(6.608\ 0.240\ 0.100)\times10^{-3}$	$(4.153\ 0.630\ 0.110)\times10^{-4}$	$(6.308\ 1.000\ 0.022)\times10^{-2}$
30.21 – 31.82	$(5.434\ 0.210\ 0.086)\times10^{-3}$	$(5.465\ 0.690\ 0.140)\times10^{-4}$	$(10.12\ 1.400\ 0.035)\times10^{-2}$
31.82 – 33.53	$(4.799\ 0.190\ 0.077)\times10^{-3}$	$(3.465\ 0.530\ 0.089)\times10^{-4}$	$(7.928\ 1.300\ 0.028)\times10^{-2}$
33.53 – 35.36	$(3.987\ 0.170\ 0.064)\times10^{-3}$	$(3.272\ 0.490\ 0.084)\times10^{-4}$	$(7.893\ 1.300\ 0.028)\times10^{-2}$
35.36 – 37.31	$(3.435\ 0.150\ 0.056)\times10^{-3}$	$(2.837\ 0.450\ 0.073)\times10^{-4}$	$(8.858\ 1.600\ 0.032)\times10^{-2}$
37.31 – 39.39	$(2.813\ 0.130\ 0.047)\times10^{-3}$	$(2.097\ 0.370\ 0.054)\times10^{-4}$	$(7.178\ 1.400\ 0.027)\times10^{-2}$
39.39 – 41.61	$(2.399\ 0.120\ 0.040)\times10^{-3}$	$(2.106\ 0.370\ 0.054)\times10^{-4}$	$(8.781\ 1.700\ 0.034)\times10^{-2}$
41.61 – 44.00	$(2.003\ 0.100\ 0.034)\times10^{-3}$	$(1.542\ 0.300\ 0.040)\times10^{-4}$	$(8.354\ 1.800\ 0.033)\times10^{-2}$
44.00 – 46.57	$(1.665\ 0.091\ 0.028)\times10^{-3}$	$(1.159\ 0.250\ 0.030)\times10^{-4}$	$(7.816\ 1.800\ 0.032)\times10^{-2}$
46.57 – 49.33	$(1.395\ 0.081\ 0.024)\times10^{-3}$	$(1.457\ 0.270\ 0.037)\times10^{-4}$	$(9.728\ 2.100\ 0.041)\times10^{-2}$

TABLE SM LXXVII: For Bartels Rotation 2503 (January 22, 2017 – February 17, 2017), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.043 0.031 0.035)×10^{1}	(3.503 0.130 0.063)×10^{0}	(17.56 0.760 0.200)×10^{-2}
1.22 – 1.46	(1.757 0.022 0.026)×10^{1}	(2.478 0.087 0.038)×10^{0}	(14.12 0.550 0.150)×10^{-2}
1.46 – 1.72	(1.474 0.016 0.019)×10^{1}	(2.013 0.059 0.028)×10^{0}	(13.84 0.450 0.150)×10^{-2}
1.72 – 2.00	(1.176 0.011 0.013)×10^{1}	(1.350 0.038 0.018)×10^{0}	(11.55 0.360 0.120)×10^{-2}
2.00 – 2.31	(9.469 0.078 0.095)×10^{0}	(9.277 0.250 0.120)×10^{-1}	(9.690 0.290 0.096)×10^{-2}
2.31 – 2.65	(7.442 0.058 0.068)×10^{0}	(6.938 0.180 0.093)×10^{-1}	(9.326 0.270 0.089)×10^{-2}
2.65 – 3.00	(5.994 0.046 0.053)×10^{0}	(4.920 0.130 0.069)×10^{-1}	(8.362 0.250 0.076)×10^{-2}
3.00 – 3.36	(4.708 0.036 0.042)×10^{0}	(3.746 0.110 0.055)×10^{-1}	(7.960 0.250 0.069)×10^{-2}
3.36 – 3.73	(3.752 0.030 0.033)×10^{0}	(2.807 0.084 0.043)×10^{-1}	(7.660 0.250 0.062)×10^{-2}
3.73 – 4.12	(2.974 0.024 0.027)×10^{0}	(1.989 0.064 0.032)×10^{-1}	(6.793 0.240 0.051)×10^{-2}
4.12 – 4.54	(2.366 0.019 0.022)×10^{0}	(1.538 0.051 0.025)×10^{-1}	(6.583 0.230 0.046)×10^{-2}
4.54 – 5.00	(1.870 0.015 0.018)×10^{0}	(1.133 0.039 0.019)×10^{-1}	(6.062 0.230 0.038)×10^{-2}
5.00 – 5.49	(1.443 0.012 0.014)×10^{0}	(9.410 0.320 0.160)×10^{-2}	(6.448 0.240 0.037)×10^{-2}
5.49 – 6.00	(1.129 0.010 0.012)×10^{0}	(7.066 0.260 0.130)×10^{-2}	(6.366 0.250 0.032)×10^{-2}
6.00 – 6.54	(8.843 0.080 0.096)×10^{-1}	(5.329 0.200 0.097)×10^{-2}	(6.280 0.260 0.028)×10^{-2}
6.54 – 7.10	(7.042 0.066 0.079)×10^{-1}	(3.973 0.160 0.074)×10^{-2}	(5.680 0.250 0.022)×10^{-2}
7.10 – 7.69	(5.579 0.055 0.065)×10^{-1}	(3.316 0.140 0.063)×10^{-2}	(6.093 0.280 0.022)×10^{-2}
7.69 – 8.30	(4.324 0.046 0.051)×10^{-1}	(2.350 0.110 0.046)×10^{-2}	(5.469 0.280 0.019)×10^{-2}
8.30 – 8.95	(3.490 0.039 0.042)×10^{-1}	(1.919 0.096 0.039)×10^{-2}	(5.629 0.300 0.019)×10^{-2}
8.95 – 9.62	(2.777 0.033 0.034)×10^{-1}	(1.485 0.081 0.031)×10^{-2}	(5.498 0.320 0.018)×10^{-2}
9.62 – 10.32	(2.243 0.029 0.028)×10^{-1}	(1.343 0.074 0.028)×10^{-2}	(6.025 0.350 0.020)×10^{-2}
10.32 – 11.04	(1.815 0.025 0.023)×10^{-1}	(1.101 0.063 0.024)×10^{-2}	(6.145 0.390 0.020)×10^{-2}
11.04 – 11.80	(1.453 0.021 0.019)×10^{-1}	(9.037 0.550 0.200)×10^{-3}	(6.188 0.410 0.020)×10^{-2}
11.80 – 12.59	(1.202 0.018 0.016)×10^{-1}	(7.507 0.480 0.170)×10^{-3}	(6.424 0.440 0.021)×10^{-2}
12.59 – 13.41	(9.435 0.160 0.130)×10^{-2}	(6.041 0.410 0.140)×10^{-3}	(6.104 0.470 0.019)×10^{-2}
13.41 – 14.25	(7.760 0.140 0.110)×10^{-2}	(4.983 0.360 0.120)×10^{-3}	(6.104 0.500 0.020)×10^{-2}
14.25 – 15.14	(6.397 0.120 0.088)×10^{-2}	(4.174 0.320 0.100)×10^{-3}	(6.579 0.550 0.021)×10^{-2}
15.14 – 16.05	(5.277 0.110 0.074)×10^{-2}	(3.069 0.270 0.075)×10^{-3}	(5.848 0.560 0.019)×10^{-2}
16.05 – 17.00	(4.436 0.094 0.063)×10^{-2}	(2.777 0.240 0.068)×10^{-3}	(6.339 0.610 0.021)×10^{-2}
17.00 – 17.98	(3.757 0.084 0.054)×10^{-2}	(2.178 0.210 0.054)×10^{-3}	(5.873 0.630 0.019)×10^{-2}
17.98 – 18.99	(2.896 0.071 0.042)×10^{-2}	(2.166 0.200 0.054)×10^{-3}	(7.509 0.770 0.025)×10^{-2}
18.99 – 20.04	(2.535 0.064 0.037)×10^{-2}	(1.790 0.180 0.045)×10^{-3}	(7.666 0.810 0.026)×10^{-2}
20.04 – 21.13	(2.165 0.057 0.032)×10^{-2}	(1.365 0.150 0.035)×10^{-3}	(6.801 0.800 0.023)×10^{-2}
21.13 – 22.25	(1.706 0.049 0.025)×10^{-2}	(1.297 0.140 0.033)×10^{-3}	(7.589 0.900 0.026)×10^{-2}
22.25 – 23.42	(1.479 0.044 0.022)×10^{-2}	(9.368 1.100 0.240)×10^{-4}	(6.724 0.890 0.023)×10^{-2}
23.42 – 24.62	(1.244 0.039 0.019)×10^{-2}	(8.514 1.100 0.220)×10^{-4}	(6.909 0.960 0.024)×10^{-2}
24.62 – 25.90	(1.077 0.034 0.016)×10^{-2}	(7.998 0.970 0.210)×10^{-4}	(7.706 1.000 0.026)×10^{-2}

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TABLE SM LXXVII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	(9.070 0.300 0.140)$\times10^{-3}$	(8.449 0.960 0.220)$\times10^{-4}$	(9.635 1.200 0.033)$\times10^{-2}$
27.25 – 28.68	(7.978 0.270 0.120)$\times10^{-3}$	(5.090 0.710 0.130)$\times10^{-4}$	(5.720 0.930 0.020)$\times10^{-2}$
28.68 – 30.21	(6.452 0.240 0.100)$\times10^{-3}$	(5.715 0.720 0.150)$\times10^{-4}$	(8.679 1.200 0.030)$\times10^{-2}$
30.21 – 31.82	(5.306 0.210 0.084)$\times10^{-3}$	(4.958 0.650 0.130)$\times10^{-4}$	(10.07 1.400 0.035)$\times10^{-2}$
31.82 – 33.53	(4.680 0.190 0.075)$\times10^{-3}$	(2.663 0.460 0.068)$\times10^{-4}$	(5.850 1.100 0.021)$\times10^{-2}$
33.53 – 35.36	(4.164 0.170 0.067)$\times10^{-3}$	(3.843 0.540 0.099)$\times10^{-4}$	(8.683 1.400 0.031)$\times10^{-2}$
35.36 – 37.31	(3.141 0.140 0.051)$\times10^{-3}$	(2.428 0.410 0.062)$\times10^{-4}$	(7.420 1.400 0.027)$\times10^{-2}$
37.31 – 39.39	(2.924 0.130 0.048)$\times10^{-3}$	(2.207 0.380 0.057)$\times10^{-4}$	(7.910 1.500 0.030)$\times10^{-2}$
39.39 – 41.61	(2.466 0.120 0.041)$\times10^{-3}$	(2.051 0.350 0.053)$\times10^{-4}$	(8.180 1.600 0.031)$\times10^{-2}$
41.61 – 44.00	(2.085 0.110 0.035)$\times10^{-3}$	(2.356 0.370 0.060)$\times10^{-4}$	(11.81 2.000 0.046)$\times10^{-2}$
44.00 – 46.57	(1.778 0.094 0.030)$\times10^{-3}$	(1.752 0.310 0.045)$\times10^{-4}$	(9.923 2.000 0.040)$\times10^{-2}$
46.57 – 49.33	(1.450 0.082 0.025)$\times10^{-3}$	(9.551 2.200 0.250)$\times10^{-5}$	(7.397 1.800 0.031)$\times10^{-2}$

TABLE SM LXXVIII: For Bartels Rotation 2504 (February 18, 2017 – March 16, 2017), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.069 0.036 0.035)×10^{1}	(3.631 0.160 0.065)×10^{0}	(17.75 0.860 0.200)×10^{-2}
1.22 – 1.46	(1.736 0.026 0.025)×10^{1}	(2.680 0.100 0.041)×10^{0}	(15.43 0.670 0.170)×10^{-2}
1.46 – 1.72	(1.484 0.018 0.019)×10^{1}	(1.987 0.068 0.028)×10^{0}	(13.33 0.520 0.140)×10^{-2}
1.72 – 2.00	(1.189 0.013 0.013)×10^{1}	(1.393 0.044 0.019)×10^{0}	(11.94 0.420 0.120)×10^{-2}
2.00 – 2.31	(9.652 0.091 0.096)×10^{0}	(1.015 0.030 0.013)×10^{0}	(10.66 0.350 0.110)×10^{-2}
2.31 – 2.65	(7.511 0.066 0.069)×10^{0}	(6.785 0.210 0.091)×10^{-1}	(9.010 0.300 0.086)×10^{-2}
2.65 – 3.00	(5.936 0.052 0.053)×10^{0}	(5.218 0.160 0.073)×10^{-1}	(8.923 0.300 0.081)×10^{-2}
3.00 – 3.36	(4.794 0.042 0.042)×10^{0}	(3.672 0.120 0.054)×10^{-1}	(7.730 0.270 0.067)×10^{-2}
3.36 – 3.73	(3.795 0.034 0.034)×10^{0}	(2.899 0.096 0.044)×10^{-1}	(7.622 0.280 0.062)×10^{-2}
3.73 – 4.12	(2.992 0.027 0.027)×10^{0}	(2.016 0.073 0.032)×10^{-1}	(6.853 0.270 0.052)×10^{-2}
4.12 – 4.54	(2.377 0.022 0.022)×10^{0}	(1.633 0.059 0.027)×10^{-1}	(6.773 0.270 0.047)×10^{-2}
4.54 – 5.00	(1.857 0.017 0.018)×10^{0}	(1.211 0.046 0.021)×10^{-1}	(6.525 0.270 0.041)×10^{-2}
5.00 – 5.49	(1.462 0.014 0.015)×10^{0}	(9.261 0.360 0.160)×10^{-2}	(6.272 0.270 0.036)×10^{-2}
5.49 – 6.00	(1.152 0.011 0.012)×10^{0}	(6.806 0.280 0.120)×10^{-2}	(5.951 0.270 0.030)×10^{-2}
6.00 – 6.54	(9.110 0.089 0.099)×10^{-1}	(5.691 0.230 0.100)×10^{-2}	(6.361 0.280 0.028)×10^{-2}
6.54 – 7.10	(7.055 0.073 0.079)×10^{-1}	(4.136 0.190 0.077)×10^{-2}	(5.876 0.290 0.023)×10^{-2}
7.10 – 7.69	(5.667 0.061 0.066)×10^{-1}	(3.384 0.160 0.065)×10^{-2}	(5.817 0.300 0.021)×10^{-2}
7.69 – 8.30	(4.349 0.051 0.052)×10^{-1}	(2.666 0.130 0.052)×10^{-2}	(6.475 0.340 0.022)×10^{-2}
8.30 – 8.95	(3.490 0.043 0.042)×10^{-1}	(2.065 0.110 0.041)×10^{-2}	(6.147 0.350 0.021)×10^{-2}
8.95 – 9.62	(2.799 0.037 0.035)×10^{-1}	(1.580 0.092 0.033)×10^{-2}	(5.806 0.360 0.019)×10^{-2}
9.62 – 10.32	(2.187 0.031 0.028)×10^{-1}	(1.193 0.076 0.025)×10^{-2}	(5.469 0.380 0.018)×10^{-2}
10.32 – 11.04	(1.814 0.027 0.023)×10^{-1}	(1.078 0.069 0.023)×10^{-2}	(6.231 0.430 0.020)×10^{-2}
11.04 – 11.80	(1.483 0.023 0.019)×10^{-1}	(8.564 0.590 0.190)×10^{-3}	(5.650 0.420 0.018)×10^{-2}
11.80 – 12.59	(1.213 0.020 0.016)×10^{-1}	(6.813 0.500 0.150)×10^{-3}	(5.537 0.440 0.018)×10^{-2}
12.59 – 13.41	(9.827 0.180 0.130)×10^{-2}	(5.574 0.440 0.130)×10^{-3}	(5.726 0.490 0.018)×10^{-2}
13.41 – 14.25	(8.116 0.160 0.110)×10^{-2}	(4.729 0.390 0.110)×10^{-3}	(5.658 0.520 0.018)×10^{-2}
14.25 – 15.14	(6.727 0.130 0.093)×10^{-2}	(4.101 0.350 0.098)×10^{-3}	(6.179 0.570 0.020)×10^{-2}
15.14 – 16.05	(5.214 0.120 0.073)×10^{-2}	(3.120 0.290 0.076)×10^{-3}	(6.355 0.640 0.021)×10^{-2}
16.05 – 17.00	(4.493 0.100 0.064)×10^{-2}	(2.690 0.260 0.066)×10^{-3}	(5.554 0.610 0.018)×10^{-2}
17.00 – 17.98	(3.672 0.090 0.052)×10^{-2}	(2.838 0.260 0.071)×10^{-3}	(7.339 0.760 0.024)×10^{-2}
17.98 – 18.99	(3.045 0.080 0.044)×10^{-2}	(1.892 0.210 0.047)×10^{-3}	(6.249 0.750 0.021)×10^{-2}
18.99 – 20.04	(2.553 0.070 0.037)×10^{-2}	(1.593 0.180 0.040)×10^{-3}	(6.405 0.810 0.022)×10^{-2}
20.04 – 21.13	(2.031 0.061 0.030)×10^{-2}	(1.185 0.150 0.030)×10^{-3}	(5.409 0.790 0.018)×10^{-2}
21.13 – 22.25	(1.865 0.056 0.028)×10^{-2}	(1.218 0.150 0.031)×10^{-3}	(6.983 0.920 0.024)×10^{-2}
22.25 – 23.42	(1.567 0.049 0.024)×10^{-2}	(1.036 0.130 0.026)×10^{-3}	(7.143 0.970 0.024)×10^{-2}
23.42 – 24.62	(1.379 0.045 0.021)×10^{-2}	(7.122 1.100 0.180)×10^{-4}	(5.472 0.880 0.019)×10^{-2}
24.62 – 25.90	(1.075 0.038 0.016)×10^{-2}	(6.043 0.930 0.160)×10^{-4}	(4.830 0.880 0.017)×10^{-2}

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TABLE SM LXXVIII – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.442\ 0.340\ 0.150)\times10^{-3}$	$(4.950\ 0.800\ 0.130)\times10^{-4}$	$(4.934\ 0.910\ 0.017)\times10^{-2}$
27.25 – 28.68	$(7.939\ 0.300\ 0.120)\times10^{-3}$	$(6.515\ 0.880\ 0.170)\times10^{-4}$	$(8.703\ 1.300\ 0.030)\times10^{-2}$
28.68 – 30.21	$(6.770\ 0.260\ 0.110)\times10^{-3}$	$(4.073\ 0.670\ 0.100)\times10^{-4}$	$(6.055\ 1.100\ 0.021)\times10^{-2}$
30.21 – 31.82	$(5.872\ 0.240\ 0.093)\times10^{-3}$	$(5.482\ 0.750\ 0.140)\times10^{-4}$	$(9.910\ 1.500\ 0.035)\times10^{-2}$
31.82 – 33.53	$(4.706\ 0.200\ 0.075)\times10^{-3}$	$(3.691\ 0.600\ 0.095)\times10^{-4}$	$(8.113\ 1.400\ 0.029)\times10^{-2}$
33.53 – 35.36	$(3.794\ 0.180\ 0.061)\times10^{-3}$	$(2.595\ 0.480\ 0.067)\times10^{-4}$	$(6.730\ 1.400\ 0.024)\times10^{-2}$
35.36 – 37.31	$(3.410\ 0.160\ 0.056)\times10^{-3}$	$(2.294\ 0.440\ 0.059)\times10^{-4}$	$(6.825\ 1.400\ 0.025)\times10^{-2}$
37.31 – 39.39	$(2.755\ 0.140\ 0.046)\times10^{-3}$	$(2.550\ 0.440\ 0.065)\times10^{-4}$	$(9.171\ 1.800\ 0.034)\times10^{-2}$
39.39 – 41.61	$(2.301\ 0.130\ 0.038)\times10^{-3}$	$(2.701\ 0.440\ 0.069)\times10^{-4}$	$(10.31\ 2.000\ 0.039)\times10^{-2}$
41.61 – 44.00	$(1.856\ 0.110\ 0.031)\times10^{-3}$	$(1.779\ 0.350\ 0.046)\times10^{-4}$	$(10.47\ 2.200\ 0.041)\times10^{-2}$
44.00 – 46.57	$(1.898\ 0.110\ 0.032)\times10^{-3}$	$(1.335\ 0.300\ 0.034)\times10^{-4}$	$(7.863\ 1.800\ 0.032)\times10^{-2}$
46.57 – 49.33	$(1.294\ 0.085\ 0.022)\times10^{-3}$	$(1.246\ 0.280\ 0.032)\times10^{-4}$	$(11.15\ 2.600\ 0.047)\times10^{-2}$

TABLE SM LXXIX: For Bartels Rotation 2505 (March 17, 2017 – April 12, 2017), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.103 0.034 0.036)×10^{1}	(3.393 0.140 0.061)×10^{0}	(15.82 0.750 0.180)×10^{-2}
1.22 – 1.46	(1.737 0.024 0.025)×10^{1}	(2.711 0.097 0.042)×10^{0}	(15.53 0.630 0.170)×10^{-2}
1.46 – 1.72	(1.466 0.017 0.019)×10^{1}	(1.874 0.061 0.026)×10^{0}	(12.97 0.470 0.140)×10^{-2}
1.72 – 2.00	(1.162 0.011 0.013)×10^{1}	(1.384 0.041 0.019)×10^{0}	(12.15 0.390 0.120)×10^{-2}
2.00 – 2.31	(9.428 0.082 0.094)×10^{0}	(9.180 0.260 0.120)×10^{-1}	(9.959 0.310 0.099)×10^{-2}
2.31 – 2.65	(7.339 0.060 0.067)×10^{0}	(7.174 0.190 0.096)×10^{-1}	(9.896 0.290 0.095)×10^{-2}
2.65 – 3.00	(5.887 0.047 0.052)×10^{0}	(5.061 0.140 0.071)×10^{-1}	(8.695 0.270 0.079)×10^{-2}
3.00 – 3.36	(4.627 0.037 0.041)×10^{0}	(3.700 0.110 0.054)×10^{-1}	(8.190 0.260 0.071)×10^{-2}
3.36 – 3.73	(3.706 0.030 0.033)×10^{0}	(2.666 0.084 0.041)×10^{-1}	(7.257 0.250 0.059)×10^{-2}
3.73 – 4.12	(2.950 0.024 0.027)×10^{0}	(2.222 0.070 0.035)×10^{-1}	(7.638 0.260 0.057)×10^{-2}
4.12 – 4.54	(2.303 0.019 0.021)×10^{0}	(1.519 0.052 0.025)×10^{-1}	(6.777 0.250 0.047)×10^{-2}
4.54 – 5.00	(1.842 0.015 0.018)×10^{0}	(1.175 0.041 0.020)×10^{-1}	(6.537 0.240 0.041)×10^{-2}
5.00 – 5.49	(1.425 0.012 0.014)×10^{0}	(8.858 0.320 0.150)×10^{-2}	(6.297 0.250 0.036)×10^{-2}
5.49 – 6.00	(1.150 0.010 0.012)×10^{0}	(6.689 0.250 0.120)×10^{-2}	(5.980 0.240 0.030)×10^{-2}
6.00 – 6.54	(8.752 0.080 0.095)×10^{-1}	(5.492 0.210 0.100)×10^{-2}	(6.233 0.260 0.028)×10^{-2}
6.54 – 7.10	(6.952 0.067 0.078)×10^{-1}	(4.133 0.170 0.077)×10^{-2}	(5.955 0.270 0.023)×10^{-2}
7.10 – 7.69	(5.622 0.056 0.065)×10^{-1}	(3.054 0.140 0.058)×10^{-2}	(5.644 0.270 0.020)×10^{-2}
7.69 – 8.30	(4.376 0.047 0.052)×10^{-1}	(2.423 0.120 0.047)×10^{-2}	(5.734 0.290 0.020)×10^{-2}
8.30 – 8.95	(3.454 0.039 0.042)×10^{-1}	(2.204 0.100 0.044)×10^{-2}	(6.631 0.330 0.022)×10^{-2}
8.95 – 9.62	(2.768 0.034 0.034)×10^{-1}	(1.472 0.082 0.030)×10^{-2}	(5.315 0.320 0.018)×10^{-2}
9.62 – 10.32	(2.197 0.028 0.028)×10^{-1}	(1.326 0.073 0.028)×10^{-2}	(6.272 0.370 0.021)×10^{-2}
10.32 – 11.04	(1.824 0.025 0.023)×10^{-1}	(1.019 0.061 0.022)×10^{-2}	(5.513 0.360 0.018)×10^{-2}
11.04 – 11.80	(1.461 0.021 0.019)×10^{-1}	(9.015 0.550 0.200)×10^{-3}	(6.448 0.420 0.021)×10^{-2}
11.80 – 12.59	(1.170 0.018 0.015)×10^{-1}	(7.153 0.470 0.160)×10^{-3}	(6.085 0.440 0.019)×10^{-2}
12.59 – 13.41	(9.436 0.160 0.130)×10^{-2}	(5.086 0.380 0.120)×10^{-3}	(5.566 0.450 0.018)×10^{-2}
13.41 – 14.25	(7.722 0.140 0.110)×10^{-2}	(4.253 0.340 0.100)×10^{-3}	(5.585 0.490 0.018)×10^{-2}
14.25 – 15.14	(6.301 0.120 0.087)×10^{-2}	(3.998 0.320 0.096)×10^{-3}	(6.369 0.550 0.021)×10^{-2}
15.14 – 16.05	(5.275 0.110 0.074)×10^{-2}	(2.850 0.260 0.069)×10^{-3}	(5.115 0.520 0.017)×10^{-2}
16.05 – 17.00	(4.262 0.092 0.060)×10^{-2}	(2.466 0.230 0.061)×10^{-3}	(5.463 0.580 0.018)×10^{-2}
17.00 – 17.98	(3.784 0.084 0.054)×10^{-2}	(1.925 0.200 0.048)×10^{-3}	(5.466 0.600 0.018)×10^{-2}
17.98 – 18.99	(2.968 0.072 0.043)×10^{-2}	(2.138 0.200 0.054)×10^{-3}	(7.560 0.770 0.025)×10^{-2}
18.99 – 20.04	(2.547 0.065 0.037)×10^{-2}	(1.887 0.180 0.048)×10^{-3}	(7.927 0.820 0.027)×10^{-2}
20.04 – 21.13	(2.171 0.058 0.032)×10^{-2}	(1.406 0.150 0.036)×10^{-3}	(6.425 0.770 0.022)×10^{-2}
21.13 – 22.25	(1.710 0.050 0.025)×10^{-2}	(1.374 0.150 0.035)×10^{-3}	(8.172 0.960 0.028)×10^{-2}
22.25 – 23.42	(1.518 0.045 0.023)×10^{-2}	(1.110 0.130 0.028)×10^{-3}	(6.553 0.870 0.022)×10^{-2}
23.42 – 24.62	(1.270 0.039 0.019)×10^{-2}	(7.510 1.000 0.190)×10^{-4}	(5.906 0.870 0.020)×10^{-2}
24.62 – 25.90	(1.039 0.034 0.016)×10^{-2}	(7.259 0.920 0.190)×10^{-4}	(7.036 0.990 0.024)×10^{-2}

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TABLE SM LXXIX – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(9.009\ 0.300\ 0.140)\times10^{-3}$	$(6.452\ 0.830\ 0.170)\times10^{-4}$	$(7.352\ 1.000\ 0.025)\times10^{-2}$
27.25 – 28.68	$(8.001\ 0.270\ 0.120)\times10^{-3}$	$(4.663\ 0.700\ 0.120)\times10^{-4}$	$(5.770\ 0.950\ 0.020)\times10^{-2}$
28.68 – 30.21	$(6.425\ 0.240\ 0.100)\times10^{-3}$	$(5.198\ 0.690\ 0.130)\times10^{-4}$	$(8.560\ 1.300\ 0.030)\times10^{-2}$
30.21 – 31.82	$(5.519\ 0.210\ 0.087)\times10^{-3}$	$(4.624\ 0.630\ 0.120)\times10^{-4}$	$(9.105\ 1.300\ 0.032)\times10^{-2}$
31.82 – 33.53	$(4.835\ 0.190\ 0.077)\times10^{-3}$	$(3.327\ 0.510\ 0.085)\times10^{-4}$	$(7.118\ 1.200\ 0.025)\times10^{-2}$
33.53 – 35.36	$(3.462\ 0.150\ 0.056)\times10^{-3}$	$(3.562\ 0.510\ 0.091)\times10^{-4}$	$(11.03\ 1.700\ 0.040)\times10^{-2}$
35.36 – 37.31	$(3.327\ 0.150\ 0.054)\times10^{-3}$	$(2.857\ 0.450\ 0.073)\times10^{-4}$	$(7.989\ 1.500\ 0.029)\times10^{-2}$
37.31 – 39.39	$(2.753\ 0.130\ 0.046)\times10^{-3}$	$(2.085\ 0.370\ 0.054)\times10^{-4}$	$(8.563\ 1.600\ 0.032)\times10^{-2}$
39.39 – 41.61	$(2.470\ 0.120\ 0.041)\times10^{-3}$	$(2.253\ 0.380\ 0.058)\times10^{-4}$	$(9.605\ 1.800\ 0.037)\times10^{-2}$
41.61 – 44.00	$(1.873\ 0.100\ 0.032)\times10^{-3}$	$(2.395\ 0.370\ 0.061)\times10^{-4}$	$(11.86\ 2.200\ 0.047)\times10^{-2}$
44.00 – 46.57	$(1.851\ 0.097\ 0.032)\times10^{-3}$	$(1.401\ 0.280\ 0.036)\times10^{-4}$	$(8.476\ 1.800\ 0.034)\times10^{-2}$
46.57 – 49.33	$(1.309\ 0.079\ 0.023)\times10^{-3}$	$(1.323\ 0.260\ 0.034)\times10^{-4}$	$(10.84\ 2.300\ 0.046)\times10^{-2}$

TABLE SM LXXX: For Bartels Rotation 2506 (April 13, 2017 – May 09, 2017), the electron flux Φ_{e^-}, the positron flux Φ_{e^+}, and the flux ratio R_e, vs energy (in GeV) at the top of AMS, and the respective statistical uncertainties $\sigma_{\rm stat}$ and total systematic uncertainties $\sigma_{\rm syst}$. The total systematic uncertainties are calculated as the quadratic sum of the individual systematic uncertainties. The small differences between Φ_{e^+}/Φ_{e^-} and R_e are due to the independent optimizations of the flux and ratio analyses. Fluxes in units of $\mathrm{m^{-2}\,s^{-1}\,sr^{-1}\,GeV^{-1}}$.

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
1.01 – 1.22	(2.037 0.033 0.035)×10^{1}	(3.656 0.140 0.066)×10^{0}	(17.98 0.800 0.200)×10^{-2}
1.22 – 1.46	(1.788 0.024 0.026)×10^{1}	(2.706 0.095 0.041)×10^{0}	(15.27 0.600 0.170)×10^{-2}
1.46 – 1.72	(1.448 0.016 0.018)×10^{1}	(1.922 0.062 0.027)×10^{0}	(13.38 0.480 0.140)×10^{-2}
1.72 – 2.00	(1.146 0.011 0.013)×10^{1}	(1.219 0.038 0.016)×10^{0}	(10.89 0.370 0.110)×10^{-2}
2.00 – 2.31	(9.367 0.082 0.094)×10^{0}	(9.159 0.260 0.120)×10^{-1}	(9.948 0.310 0.099)×10^{-2}
2.31 – 2.65	(7.389 0.060 0.068)×10^{0}	(6.875 0.190 0.092)×10^{-1}	(9.532 0.280 0.091)×10^{-2}
2.65 – 3.00	(5.751 0.046 0.051)×10^{0}	(5.001 0.140 0.070)×10^{-1}	(8.701 0.270 0.079)×10^{-2}
3.00 – 3.36	(4.589 0.037 0.041)×10^{0}	(3.535 0.110 0.052)×10^{-1}	(7.701 0.250 0.066)×10^{-2}
3.36 – 3.73	(3.668 0.030 0.033)×10^{0}	(2.667 0.084 0.041)×10^{-1}	(7.240 0.250 0.059)×10^{-2}
3.73 – 4.12	(2.912 0.024 0.026)×10^{0}	(1.991 0.066 0.032)×10^{-1}	(6.791 0.240 0.051)×10^{-2}
4.12 – 4.54	(2.290 0.019 0.021)×10^{0}	(1.588 0.053 0.026)×10^{-1}	(6.987 0.250 0.048)×10^{-2}
4.54 – 5.00	(1.813 0.015 0.017)×10^{0}	(1.165 0.041 0.020)×10^{-1}	(6.615 0.250 0.042)×10^{-2}
5.00 – 5.49	(1.430 0.012 0.014)×10^{0}	(8.636 0.320 0.150)×10^{-2}	(5.979 0.240 0.034)×10^{-2}
5.49 – 6.00	(1.102 0.010 0.012)×10^{0}	(6.641 0.250 0.120)×10^{-2}	(6.184 0.250 0.031)×10^{-2}
6.00 – 6.54	(8.693 0.080 0.095)×10^{-1}	(4.787 0.200 0.087)×10^{-2}	(5.798 0.250 0.026)×10^{-2}
6.54 – 7.10	(6.911 0.066 0.078)×10^{-1}	(4.075 0.170 0.076)×10^{-2}	(6.188 0.270 0.024)×10^{-2}
7.10 – 7.69	(5.324 0.054 0.062)×10^{-1}	(3.157 0.140 0.060)×10^{-2}	(6.085 0.290 0.022)×10^{-2}
7.69 – 8.30	(4.267 0.046 0.051)×10^{-1}	(2.684 0.120 0.053)×10^{-2}	(6.279 0.310 0.022)×10^{-2}
8.30 – 8.95	(3.424 0.039 0.042)×10^{-1}	(2.102 0.100 0.042)×10^{-2}	(6.299 0.330 0.021)×10^{-2}
8.95 – 9.62	(2.787 0.034 0.034)×10^{-1}	(1.584 0.084 0.033)×10^{-2}	(5.904 0.330 0.020)×10^{-2}
9.62 – 10.32	(2.193 0.028 0.028)×10^{-1}	(1.442 0.076 0.030)×10^{-2}	(6.566 0.380 0.022)×10^{-2}
10.32 – 11.04	(1.722 0.024 0.022)×10^{-1}	(1.082 0.063 0.023)×10^{-2}	(6.410 0.410 0.021)×10^{-2}
11.04 – 11.80	(1.406 0.021 0.018)×10^{-1}	(9.098 0.550 0.200)×10^{-3}	(6.181 0.420 0.020)×10^{-2}
11.80 – 12.59	(1.158 0.018 0.015)×10^{-1}	(6.529 0.450 0.150)×10^{-3}	(5.496 0.420 0.018)×10^{-2}
12.59 – 13.41	(9.261 0.160 0.120)×10^{-2}	(5.522 0.400 0.130)×10^{-3}	(6.329 0.490 0.020)×10^{-2}
13.41 – 14.25	(7.417 0.140 0.100)×10^{-2}	(5.106 0.370 0.120)×10^{-3}	(7.010 0.560 0.022)×10^{-2}
14.25 – 15.14	(6.087 0.120 0.084)×10^{-2}	(3.830 0.300 0.092)×10^{-3}	(6.515 0.560 0.021)×10^{-2}
15.14 – 16.05	(5.240 0.110 0.073)×10^{-2}	(3.834 0.300 0.093)×10^{-3}	(7.442 0.640 0.024)×10^{-2}
16.05 – 17.00	(4.577 0.095 0.065)×10^{-2}	(2.753 0.240 0.068)×10^{-3}	(6.358 0.600 0.021)×10^{-2}
17.00 – 17.98	(3.530 0.081 0.050)×10^{-2}	(2.277 0.210 0.057)×10^{-3}	(6.213 0.660 0.021)×10^{-2}
17.98 – 18.99	(3.044 0.073 0.044)×10^{-2}	(1.785 0.180 0.045)×10^{-3}	(6.530 0.710 0.022)×10^{-2}
18.99 – 20.04	(2.486 0.064 0.036)×10^{-2}	(1.925 0.180 0.049)×10^{-3}	(7.030 0.780 0.024)×10^{-2}
20.04 – 21.13	(2.056 0.056 0.030)×10^{-2}	(1.940 0.180 0.049)×10^{-3}	(9.481 0.970 0.032)×10^{-2}
21.13 – 22.25	(1.788 0.051 0.027)×10^{-2}	(1.175 0.130 0.030)×10^{-3}	(6.728 0.840 0.023)×10^{-2}
22.25 – 23.42	(1.493 0.044 0.022)×10^{-2}	(1.317 0.140 0.034)×10^{-3}	(8.806 1.000 0.030)×10^{-2}
23.42 – 24.62	(1.311 0.040 0.020)×10^{-2}	(8.934 1.100 0.230)×10^{-4}	(7.853 0.990 0.027)×10^{-2}
24.62 – 25.90	(1.072 0.034 0.016)×10^{-2}	(6.999 0.920 0.180)×10^{-4}	(7.242 0.990 0.025)×10^{-2}

Continued on next page

TABLE SM LXXX – *Continued from previous page*

Energy	Φ_{e^-} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	Φ_{e^+} $\sigma_{\rm stat}$ $\sigma_{\rm syst}$	R_e $\sigma_{\rm stat}$ $\sigma_{\rm syst}$
25.90 – 27.25	$(8.691\ 0.300\ 0.130)\times10^{-3}$	$(6.534\ 0.840\ 0.170)\times10^{-4}$	$(7.673\ 1.100\ 0.026)\times10^{-2}$
27.25 – 28.68	$(7.777\ 0.270\ 0.120)\times10^{-3}$	$(4.814\ 0.710\ 0.120)\times10^{-4}$	$(6.463\ 1.000\ 0.022)\times10^{-2}$
28.68 – 30.21	$(6.154\ 0.230\ 0.097)\times10^{-3}$	$(4.975\ 0.680\ 0.130)\times10^{-4}$	$(8.353\ 1.300\ 0.029)\times10^{-2}$
30.21 – 31.82	$(5.623\ 0.210\ 0.089)\times10^{-3}$	$(4.832\ 0.650\ 0.120)\times10^{-4}$	$(9.524\ 1.400\ 0.033)\times10^{-2}$
31.82 – 33.53	$(4.719\ 0.190\ 0.076)\times10^{-3}$	$(3.801\ 0.550\ 0.098)\times10^{-4}$	$(8.641\ 1.400\ 0.031)\times10^{-2}$
33.53 – 35.36	$(4.132\ 0.170\ 0.067)\times10^{-3}$	$(2.327\ 0.420\ 0.060)\times10^{-4}$	$(4.224\ 0.960\ 0.015)\times10^{-2}$
35.36 – 37.31	$(3.520\ 0.150\ 0.058)\times10^{-3}$	$(2.766\ 0.440\ 0.071)\times10^{-4}$	$(7.625\ 1.400\ 0.028)\times10^{-2}$
37.31 – 39.39	$(3.016\ 0.140\ 0.050)\times10^{-3}$	$(1.402\ 0.310\ 0.036)\times10^{-4}$	$(5.629\ 1.300\ 0.021)\times10^{-2}$
39.39 – 41.61	$(2.427\ 0.120\ 0.041)\times10^{-3}$	$(2.431\ 0.380\ 0.062)\times10^{-4}$	$(11.23\ 1.900\ 0.043)\times10^{-2}$
41.61 – 44.00	$(1.947\ 0.100\ 0.033)\times10^{-3}$	$(1.643\ 0.310\ 0.042)\times10^{-4}$	$(8.666\ 1.800\ 0.034)\times10^{-2}$
44.00 – 46.57	$(1.676\ 0.092\ 0.029)\times10^{-3}$	$(2.317\ 0.350\ 0.059)\times10^{-4}$	$(13.46\ 2.300\ 0.055)\times10^{-2}$
46.57 – 49.33	$(1.295\ 0.078\ 0.022)\times10^{-3}$	$(1.062\ 0.230\ 0.027)\times10^{-4}$	$(7.227\ 1.800\ 0.030)\times10^{-2}$