

Table 320: Muons in Element 116

| Z | A [g/mol] | ρ [g/cm ³] | I [eV] | a | $k = m_s$ | x_0 | x_1 | \bar{C} | δ_0 |
|----------|---------------------|-----------------------------|----------|---------------------------------------|-----------|----------|------------------------------------|-----------|------------|
| 116 () | [293.200 (8)] | ?? | 1213.0 | 0.29132 | 3.0000 | 0.7064 | 3.0000 | 6.7681 | 0.00 |
| T | p [MeV/c] | Ionization | Brems | Pair prod [MeV cm ² /g] | Photonucl | Total | CSDA range [g/cm ²] | | |
| 10.0 MeV | 4.704×10^1 | 3.432 | | | | 3.432 | 1.750×10^0 | | |
| 14.0 MeV | 5.616×10^1 | 2.782 | | | | 2.782 | 3.056×10^0 | | |
| 20.0 MeV | 6.802×10^1 | 2.245 | | | | 2.245 | 5.479×10^0 | | |
| 30.0 MeV | 8.509×10^1 | 1.794 | | | | 1.794 | 1.052×10^1 | | |
| 40.0 MeV | 1.003×10^2 | 1.559 | | | | 1.560 | 1.653×10^1 | | |
| 80.0 MeV | 1.527×10^2 | 1.214 | | | | 1.214 | 4.643×10^1 | | |
| 100. MeV | 1.764×10^2 | 1.155 | | | | 1.155 | 6.335×10^1 | | |
| 140. MeV | 2.218×10^2 | 1.100 | | | | 1.100 | 9.899×10^1 | | |
| 200. MeV | 2.868×10^2 | 1.081 | 0.000 | | | 1.081 | 1.542×10^2 | | |
| 206. MeV | 2.933×10^2 | 1.081 | 0.000 | | | 1.081 | <i>Minimum ionization</i> | | |
| 300. MeV | 3.917×10^2 | 1.096 | 0.000 | | 0.000 | 1.096 | 2.462×10^2 | | |
| 400. MeV | 4.945×10^2 | 1.124 | 0.000 | | 0.000 | 1.125 | 3.363×10^2 | | |
| 800. MeV | 8.995×10^2 | 1.227 | 0.001 | | 0.000 | 1.229 | 6.754×10^2 | | |
| 1.00 GeV | 1.101×10^3 | 1.264 | 0.002 | | 0.000 | 1.267 | 8.356×10^2 | | |
| 1.40 GeV | 1.502×10^3 | 1.322 | 0.003 | | 0.000 | 1.326 | 1.144×10^3 | | |
| 2.00 GeV | 2.103×10^3 | 1.382 | 0.005 | | 0.001 | 1.389 | 1.585×10^3 | | |
| 3.00 GeV | 3.104×10^3 | 1.449 | 0.009 | 0.003 | 0.001 | 1.463 | 2.286×10^3 | | |
| 4.00 GeV | 4.104×10^3 | 1.493 | 0.014 | 0.006 | 0.001 | 1.516 | 2.957×10^3 | | |
| 8.00 GeV | 8.105×10^3 | 1.592 | 0.034 | 0.025 | 0.003 | 1.655 | 5.472×10^3 | | |
| 10.0 GeV | 1.011×10^4 | 1.621 | 0.046 | 0.037 | 0.004 | 1.708 | 6.661×10^3 | | |
| 14.0 GeV | 1.411×10^4 | 1.661 | 0.070 | 0.061 | 0.005 | 1.798 | 8.942×10^3 | | |
| 20.0 GeV | 2.011×10^4 | 1.701 | 0.109 | 0.102 | 0.007 | 1.920 | 1.217×10^4 | | |
| 30.0 GeV | 3.011×10^4 | 1.743 | 0.178 | 0.183 | 0.010 | 2.116 | 1.713×10^4 | | |
| 40.0 GeV | 4.011×10^4 | 1.770 | 0.252 | 0.273 | 0.014 | 2.310 | 2.165×10^4 | | |
| 80.0 GeV | 8.011×10^4 | 1.831 | 0.570 | 0.671 | 0.027 | 3.101 | 3.655×10^4 | | |
| 100. GeV | 1.001×10^5 | 1.850 | 0.738 | 0.887 | 0.033 | 3.510 | 4.261×10^4 | | |
| 110. GeV | 1.103×10^5 | 1.858 | 0.825 | 0.997 | 0.037 | 3.718 | <i>Muon critical energy</i> | | |
| 140. GeV | 1.401×10^5 | 1.878 | 1.083 | 1.330 | 0.046 | 4.340 | 5.285×10^4 | | |
| 200. GeV | 2.001×10^5 | 1.907 | 1.623 | 2.035 | 0.066 | 5.633 | 6.496×10^4 | | |
| 300. GeV | 3.001×10^5 | 1.940 | 2.543 | 3.210 | 0.099 | 7.794 | 8.000×10^4 | | |
| 400. GeV | 4.001×10^5 | 1.963 | 3.494 | 4.430 | 0.132 | 10.021 | 9.129×10^4 | | |
| 800. GeV | 8.001×10^5 | 2.019 | 7.411 | 9.430 | 0.267 | 19.130 | 1.197×10^5 | | |
| 1.00 TeV | 1.000×10^6 | 2.038 | 9.420 | 11.989 | 0.335 | 23.785 | 1.291×10^5 | | |
| 1.40 TeV | 1.400×10^6 | 2.066 | 13.444 | 17.089 | 0.475 | 33.076 | 1.433×10^5 | | |
| 2.00 TeV | 2.000×10^6 | 2.096 | 19.591 | 24.874 | 0.687 | 47.250 | 1.584×10^5 | | |
| 3.00 TeV | 3.000×10^6 | 2.131 | 29.844 | 37.805 | 1.049 | 70.832 | 1.756×10^5 | | |
| 4.00 TeV | 4.000×10^6 | 2.156 | 40.225 | 50.875 | 1.417 | 94.676 | 1.877×10^5 | | |
| 8.00 TeV | 8.000×10^6 | 2.217 | 82.037 | 103.402 | 2.941 | 190.600 | 2.169×10^5 | | |
| 10.0 TeV | 1.000×10^7 | 2.237 | 103.089 | 129.803 | 3.723 | 238.855 | 2.263×10^5 | | |
| 14.0 TeV | 1.400×10^7 | 2.268 | 145.078 | 182.482 | 5.326 | 335.156 | 2.403×10^5 | | |
| 20.0 TeV | 2.000×10^7 | 2.301 | 208.394 | 261.836 | 7.782 | 480.316 | 2.552×10^5 | | |
| 30.0 TeV | 3.000×10^7 | 2.340 | 313.904 | 393.843 | 12.022 | 722.111 | 2.721×10^5 | | |
| 40.0 TeV | 4.000×10^7 | 2.367 | 419.781 | 526.153 | 16.360 | 964.663 | 2.840×10^5 | | |
| 80.0 TeV | 8.000×10^7 | 2.435 | 843.235 | 1055.754 | 34.453 | 1935.879 | 3.127×10^5 | | |
| 100. TeV | 1.000×10^8 | 2.458 | 1055.080 | 1320.790 | 43.790 | 2422.120 | 3.219×10^5 | | |