

Muons in meitnerium (Mt)

| Z | A [g/mol] | ρ [g/cm ³] | I [eV] | a | $k = m_s$ | x_0 | x_1 | \bar{C} | δ_0 |
|----------|---------------------|-----------------------------|---------|---------------------------------------|-----------|----------|------------------------------------|-----------|------------|
| 109 (Mt) | [278.1563(7)] | ?? | 1115.0 | 0.27805 | 3.0000 | 0.6522 | 3.0000 | 6.6019 | 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 | 3.519 | | | | 3.519 | 1.692×10^0 | | |
| 14.0 MeV | 5.616×10^1 | 2.840 | | | | 2.840 | 2.968×10^0 | | |
| 20.0 MeV | 6.802×10^1 | 2.284 | | | | 2.284 | 5.346×10^0 | | |
| 30.0 MeV | 8.509×10^1 | 1.821 | | | | 1.821 | 1.031×10^1 | | |
| 40.0 MeV | 1.003×10^2 | 1.580 | | | | 1.580 | 1.624×10^1 | | |
| 80.0 MeV | 1.527×10^2 | 1.228 | | | | 1.228 | 4.578×10^1 | | |
| 100. MeV | 1.764×10^2 | 1.166 | | | | 1.166 | 6.253×10^1 | | |
| 140. MeV | 2.218×10^2 | 1.111 | | | | 1.111 | 9.782×10^1 | | |
| 200. MeV | 2.868×10^2 | 1.090 | | | | 1.090 | 1.525×10^2 | | |
| 207. MeV | 2.943×10^2 | 1.090 | 0.000 | | | 1.090 | <i>Minimum ionization</i> | | |
| 300. MeV | 3.917×10^2 | 1.104 | 0.000 | | 0.000 | 1.105 | 2.438×10^2 | | |
| 400. MeV | 4.945×10^2 | 1.132 | 0.000 | | 0.000 | 1.133 | 3.332×10^2 | | |
| 800. MeV | 8.995×10^2 | 1.231 | 0.001 | | 0.000 | 1.233 | 6.706×10^2 | | |
| 1.00 GeV | 1.101×10^3 | 1.268 | 0.002 | | 0.000 | 1.270 | 8.303×10^2 | | |
| 1.40 GeV | 1.502×10^3 | 1.324 | 0.003 | | 0.000 | 1.328 | 1.138×10^3 | | |
| 2.00 GeV | 2.103×10^3 | 1.383 | 0.005 | 0.000 | 0.001 | 1.390 | 1.579×10^3 | | |
| 3.00 GeV | 3.104×10^3 | 1.448 | 0.009 | 0.003 | 0.001 | 1.462 | 2.279×10^3 | | |
| 4.00 GeV | 4.104×10^3 | 1.492 | 0.013 | 0.006 | 0.001 | 1.514 | 2.951×10^3 | | |
| 8.00 GeV | 8.105×10^3 | 1.590 | 0.032 | 0.024 | 0.003 | 1.650 | 5.472×10^3 | | |
| 10.0 GeV | 1.011×10^4 | 1.618 | 0.043 | 0.035 | 0.004 | 1.701 | 6.666×10^3 | | |
| 14.0 GeV | 1.411×10^4 | 1.658 | 0.065 | 0.059 | 0.005 | 1.788 | 8.958×10^3 | | |
| 20.0 GeV | 2.011×10^4 | 1.698 | 0.102 | 0.098 | 0.007 | 1.906 | 1.221×10^4 | | |
| 30.0 GeV | 3.011×10^4 | 1.739 | 0.166 | 0.175 | 0.010 | 2.093 | 1.721×10^4 | | |
| 40.0 GeV | 4.011×10^4 | 1.766 | 0.235 | 0.261 | 0.014 | 2.277 | 2.179×10^4 | | |
| 80.0 GeV | 8.011×10^4 | 1.827 | 0.532 | 0.638 | 0.027 | 3.026 | 3.699×10^4 | | |
| 100. GeV | 1.001×10^5 | 1.846 | 0.690 | 0.842 | 0.033 | 3.413 | 4.321×10^4 | | |
| 116. GeV | 1.158×10^5 | 1.858 | 0.815 | 1.005 | 0.039 | 3.718 | <i>Muon critical energy</i> | | |
| 140. GeV | 1.401×10^5 | 1.873 | 1.012 | 1.263 | 0.047 | 4.196 | 5.376×10^4 | | |
| 200. GeV | 2.001×10^5 | 1.902 | 1.516 | 1.930 | 0.066 | 5.417 | 6.633×10^4 | | |
| 300. GeV | 3.001×10^5 | 1.935 | 2.376 | 3.043 | 0.100 | 7.456 | 8.201×10^4 | | |
| 400. GeV | 4.001×10^5 | 1.958 | 3.264 | 4.198 | 0.133 | 9.555 | 9.383×10^4 | | |
| 800. GeV | 8.001×10^5 | 2.015 | 6.925 | 8.933 | 0.268 | 18.143 | 1.237×10^5 | | |
| 1.00 TeV | 1.000×10^6 | 2.033 | 8.804 | 11.355 | 0.337 | 22.531 | 1.336×10^5 | | |
| 1.40 TeV | 1.400×10^6 | 2.061 | 12.565 | 16.183 | 0.477 | 31.288 | 1.486×10^5 | | |
| 2.00 TeV | 2.000×10^6 | 2.091 | 18.312 | 23.551 | 0.690 | 44.647 | 1.646×10^5 | | |
| 3.00 TeV | 3.000×10^6 | 2.126 | 27.899 | 35.794 | 1.055 | 66.876 | 1.828×10^5 | | |
| 4.00 TeV | 4.000×10^6 | 2.151 | 37.606 | 48.167 | 1.425 | 89.350 | 1.957×10^5 | | |
| 8.00 TeV | 8.000×10^6 | 2.212 | 76.705 | 97.890 | 2.956 | 179.765 | 2.266×10^5 | | |
| 10.0 TeV | 1.000×10^7 | 2.232 | 96.393 | 122.878 | 3.742 | 225.248 | 2.365×10^5 | | |
| 14.0 TeV | 1.400×10^7 | 2.263 | 135.661 | 172.750 | 5.354 | 316.030 | 2.514×10^5 | | |
| 20.0 TeV | 2.000×10^7 | 2.296 | 194.878 | 247.878 | 7.822 | 452.876 | 2.672×10^5 | | |
| 30.0 TeV | 3.000×10^7 | 2.334 | 293.554 | 372.845 | 12.085 | 680.820 | 2.851×10^5 | | |
| 40.0 TeV | 4.000×10^7 | 2.362 | 392.576 | 498.098 | 16.446 | 909.484 | 2.978×10^5 | | |
| 80.0 TeV | 8.000×10^7 | 2.430 | 788.628 | 999.451 | 34.634 | 1825.145 | 3.282×10^5 | | |
| 100. TeV | 1.000×10^8 | 2.452 | 986.770 | 1250.350 | 44.020 | 2283.595 | 3.380×10^5 | | |