

Table 158: Muons in Ferroboride (FeB)

| | $\langle Z/A \rangle$ | ρ [g/cm ³] | I [eV] | a | $k = m_s$ | x_0 | x_1 | \bar{C} | δ_0 |
|----------|-----------------------|-----------------------------|----------|-----------|-----------|---------|------------------------------------|-----------|------------|
| | 0.46507 | 7.150 | 261.0 | 0.12911 | 3.0240 | -0.0988 | 3.1749 | 4.2057 | 0.00 |
| T | p [MeV/c] | Ionization | Brems | Pair prod | Photonucl | Total | CSDA range [g/cm ²] | | |
| 10.0 MeV | 4.704×10^1 | 5.597 | | | | 5.597 | 1.002×10^0 | | |
| 14.0 MeV | 5.616×10^1 | 4.397 | | | | 4.397 | 1.816×10^0 | | |
| 20.0 MeV | 6.802×10^1 | 3.457 | | | | 3.457 | 3.372×10^0 | | |
| 30.0 MeV | 8.509×10^1 | 2.701 | | | | 2.701 | 6.689×10^0 | | |
| 40.0 MeV | 1.003×10^2 | 2.313 | | | | 2.313 | 1.072×10^1 | | |
| 80.0 MeV | 1.527×10^2 | 1.741 | | | | 1.741 | 3.127×10^1 | | |
| 100. MeV | 1.764×10^2 | 1.637 | | | | 1.638 | 4.315×10^1 | | |
| 140. MeV | 2.218×10^2 | 1.534 | | | | 1.534 | 6.850×10^1 | | |
| 200. MeV | 2.868×10^2 | 1.479 | | | | 1.480 | 1.085×10^2 | | |
| 277. MeV | 3.673×10^2 | 1.466 | | | 0.000 | 1.466 | <i>Minimum ionization</i> | | |
| 300. MeV | 3.917×10^2 | 1.467 | | | 0.000 | 1.467 | 1.765×10^2 | | |
| 400. MeV | 4.945×10^2 | 1.480 | 0.000 | | 0.000 | 1.481 | 2.444×10^2 | | |
| 800. MeV | 8.995×10^2 | 1.559 | 0.000 | | 0.000 | 1.559 | 5.076×10^2 | | |
| 1.00 GeV | 1.101×10^3 | 1.592 | 0.001 | | 0.000 | 1.593 | 6.344×10^2 | | |
| 1.40 GeV | 1.502×10^3 | 1.644 | 0.001 | 0.000 | 0.001 | 1.646 | 8.813×10^2 | | |
| 2.00 GeV | 2.103×10^3 | 1.702 | 0.001 | 0.001 | 0.001 | 1.706 | 1.239×10^3 | | |
| 3.00 GeV | 3.104×10^3 | 1.768 | 0.003 | 0.002 | 0.001 | 1.774 | 1.813×10^3 | | |
| 4.00 GeV | 4.104×10^3 | 1.813 | 0.004 | 0.003 | 0.002 | 1.822 | 2.369×10^3 | | |
| 8.00 GeV | 8.105×10^3 | 1.917 | 0.009 | 0.009 | 0.004 | 1.939 | 4.489×10^3 | | |
| 10.0 GeV | 1.011×10^4 | 1.948 | 0.012 | 0.013 | 0.004 | 1.977 | 5.511×10^3 | | |
| 14.0 GeV | 1.411×10^4 | 1.993 | 0.018 | 0.020 | 0.006 | 2.038 | 7.502×10^3 | | |
| 20.0 GeV | 2.011×10^4 | 2.038 | 0.029 | 0.033 | 0.008 | 2.108 | 1.039×10^4 | | |
| 30.0 GeV | 3.011×10^4 | 2.085 | 0.047 | 0.058 | 0.012 | 2.203 | 1.503×10^4 | | |
| 40.0 GeV | 4.011×10^4 | 2.117 | 0.066 | 0.085 | 0.016 | 2.285 | 1.949×10^4 | | |
| 80.0 GeV | 8.011×10^4 | 2.189 | 0.150 | 0.204 | 0.032 | 2.575 | 3.595×10^4 | | |
| 100. GeV | 1.001×10^5 | 2.211 | 0.194 | 0.268 | 0.039 | 2.713 | 4.351×10^4 | | |
| 140. GeV | 1.401×10^5 | 2.244 | 0.285 | 0.401 | 0.054 | 2.985 | 5.756×10^4 | | |
| 200. GeV | 2.001×10^5 | 2.278 | 0.427 | 0.611 | 0.077 | 3.394 | 7.640×10^4 | | |
| 300. GeV | 3.001×10^5 | 2.316 | 0.671 | 0.964 | 0.116 | 4.068 | 1.033×10^5 | | |
| 390. GeV | 3.901×10^5 | 2.341 | 0.898 | 1.293 | 0.151 | 4.684 | <i>Muon critical energy</i> | | |
| 400. GeV | 4.001×10^5 | 2.344 | 0.923 | 1.330 | 0.155 | 4.753 | 1.260×10^5 | | |
| 800. GeV | 8.001×10^5 | 2.410 | 1.968 | 2.835 | 0.312 | 7.527 | 1.923×10^5 | | |
| 1.00 TeV | 1.000×10^6 | 2.432 | 2.505 | 3.607 | 0.392 | 8.938 | 2.167×10^5 | | |
| 1.40 TeV | 1.400×10^6 | 2.465 | 3.584 | 5.147 | 0.556 | 11.753 | 2.556×10^5 | | |
| 2.00 TeV | 2.000×10^6 | 2.500 | 5.237 | 7.500 | 0.805 | 16.043 | 2.991×10^5 | | |
| 3.00 TeV | 3.000×10^6 | 2.541 | 7.999 | 11.411 | 1.232 | 23.184 | 3.507×10^5 | | |
| 4.00 TeV | 4.000×10^6 | 2.570 | 10.801 | 15.368 | 1.666 | 30.406 | 3.883×10^5 | | |
| 8.00 TeV | 8.000×10^6 | 2.643 | 22.113 | 31.281 | 3.469 | 59.507 | 4.806×10^5 | | |
| 10.0 TeV | 1.000×10^7 | 2.666 | 27.820 | 39.285 | 4.397 | 74.168 | 5.106×10^5 | | |
| 14.0 TeV | 1.400×10^7 | 2.703 | 39.203 | 55.250 | 6.302 | 103.459 | 5.561×10^5 | | |
| 20.0 TeV | 2.000×10^7 | 2.741 | 56.391 | 79.309 | 9.226 | 147.669 | 6.044×10^5 | | |
| 30.0 TeV | 3.000×10^7 | 2.787 | 85.006 | 119.338 | 14.289 | 221.421 | 6.593×10^5 | | |
| 40.0 TeV | 4.000×10^7 | 2.819 | 113.738 | 159.473 | 19.478 | 295.509 | 6.983×10^5 | | |
| 80.0 TeV | 8.000×10^7 | 2.899 | 228.875 | 320.135 | 41.187 | 593.097 | 7.920×10^5 | | |
| 100. TeV | 1.000×10^8 | 2.926 | 286.558 | 400.547 | 52.416 | 742.448 | 8.220×10^5 | | |