

Table 201: Muons in Skeletal muscle (ICRP)

| $\langle Z/A \rangle$ | ρ [g/cm ³] | I [eV] | a | $k = m_s$ | x_0 | x_1 | \bar{C} | δ_0 |
|-----------------------|-----------------------------|------------|---------|---------------------------------------|-----------|---------|------------------------------------|------------|
| 0.54938 | 1.040 | 75.3 | 0.08636 | 3.5330 | 0.2282 | 2.7999 | 3.4809 | 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 | 7.879 | | | | 7.879 | 7.015×10^{-1} | |
| 14.0 MeV | 5.616×10^1 | 6.146 | | | | 6.146 | 1.282×10^0 | |
| 20.0 MeV | 6.802×10^1 | 4.800 | | | | 4.800 | 2.400×10^0 | |
| 30.0 MeV | 8.509×10^1 | 3.724 | | | | 3.724 | 4.798×10^0 | |
| 40.0 MeV | 1.003×10^2 | 3.180 | | | | 3.180 | 7.723×10^0 | |
| 80.0 MeV | 1.527×10^2 | 2.387 | | | | 2.387 | 2.270×10^1 | |
| 100. MeV | 1.764×10^2 | 2.246 | | | | 2.246 | 3.136×10^1 | |
| 140. MeV | 2.218×10^2 | 2.092 | | | | 2.092 | 4.990×10^1 | |
| 200. MeV | 2.868×10^2 | 2.004 | | | | 2.004 | 7.932×10^1 | |
| 300. MeV | 3.917×10^2 | 1.970 | | | 0.000 | 1.971 | 1.298×10^2 | |
| 318. MeV | 4.105×10^2 | 1.970 | | | 0.000 | 1.970 | <i>Minimum ionization</i> | |
| 400. MeV | 4.945×10^2 | 1.977 | | | 0.000 | 1.977 | 1.805×10^2 | |
| 800. MeV | 8.995×10^2 | 2.052 | 0.000 | | 0.000 | 2.052 | 3.791×10^2 | |
| 1.00 GeV | 1.101×10^3 | 2.086 | 0.000 | | 0.000 | 2.086 | 4.758×10^2 | |
| 1.40 GeV | 1.502×10^3 | 2.141 | 0.000 | | 0.001 | 2.142 | 6.649×10^2 | |
| 2.00 GeV | 2.103×10^3 | 2.202 | 0.001 | 0.000 | 0.001 | 2.204 | 9.407×10^2 | |
| 3.00 GeV | 3.104×10^3 | 2.272 | 0.001 | 0.001 | 0.001 | 2.275 | 1.387×10^3 | |
| 4.00 GeV | 4.104×10^3 | 2.320 | 0.001 | 0.001 | 0.002 | 2.325 | 1.821×10^3 | |
| 8.00 GeV | 8.105×10^3 | 2.431 | 0.004 | 0.003 | 0.004 | 2.442 | 3.495×10^3 | |
| 10.0 GeV | 1.011×10^4 | 2.465 | 0.005 | 0.005 | 0.005 | 2.479 | 4.308×10^3 | |
| 14.0 GeV | 1.411×10^4 | 2.513 | 0.007 | 0.008 | 0.007 | 2.535 | 5.902×10^3 | |
| 20.0 GeV | 2.011×10^4 | 2.563 | 0.011 | 0.013 | 0.009 | 2.596 | 8.239×10^3 | |
| 30.0 GeV | 3.011×10^4 | 2.616 | 0.018 | 0.023 | 0.013 | 2.670 | 1.203×10^4 | |
| 40.0 GeV | 4.011×10^4 | 2.652 | 0.026 | 0.033 | 0.018 | 2.729 | 1.574×10^4 | |
| 80.0 GeV | 8.011×10^4 | 2.735 | 0.060 | 0.080 | 0.034 | 2.909 | 2.991×10^4 | |
| 100. GeV | 1.001×10^5 | 2.761 | 0.077 | 0.106 | 0.042 | 2.986 | 3.670×10^4 | |
| 140. GeV | 1.401×10^5 | 2.799 | 0.114 | 0.159 | 0.059 | 3.131 | 4.977×10^4 | |
| 200. GeV | 2.001×10^5 | 2.839 | 0.172 | 0.243 | 0.084 | 3.338 | 6.833×10^4 | |
| 300. GeV | 3.001×10^5 | 2.885 | 0.271 | 0.386 | 0.125 | 3.667 | 9.689×10^4 | |
| 400. GeV | 4.001×10^5 | 2.917 | 0.374 | 0.535 | 0.167 | 3.993 | 1.230×10^5 | |
| 800. GeV | 8.001×10^5 | 2.996 | 0.803 | 1.155 | 0.337 | 5.292 | 2.097×10^5 | |
| 1.00 TeV | 1.000×10^6 | 3.021 | 1.025 | 1.476 | 0.424 | 5.946 | 2.454×10^5 | |
| 1.03 TeV | 1.032×10^6 | 3.025 | 1.060 | 1.527 | 0.438 | 6.051 | <i>Muon critical energy</i> | |
| 1.40 TeV | 1.400×10^6 | 3.060 | 1.471 | 2.114 | 0.601 | 7.246 | 3.062×10^5 | |
| 2.00 TeV | 2.000×10^6 | 3.102 | 2.157 | 3.091 | 0.870 | 9.221 | 3.795×10^5 | |
| 3.00 TeV | 3.000×10^6 | 3.150 | 3.307 | 4.719 | 1.333 | 12.509 | 4.723×10^5 | |
| 4.00 TeV | 4.000×10^6 | 3.185 | 4.477 | 6.369 | 1.803 | 15.834 | 5.432×10^5 | |
| 8.00 TeV | 8.000×10^6 | 3.270 | 9.214 | 13.014 | 3.764 | 29.263 | 7.262×10^5 | |
| 10.0 TeV | 1.000×10^7 | 3.298 | 11.610 | 16.361 | 4.774 | 36.044 | 7.876×10^5 | |
| 14.0 TeV | 1.400×10^7 | 3.341 | 16.392 | 23.030 | 6.855 | 49.619 | 8.818×10^5 | |
| 20.0 TeV | 2.000×10^7 | 3.387 | 23.625 | 33.089 | 10.053 | 70.154 | 9.831×10^5 | |
| 30.0 TeV | 3.000×10^7 | 3.440 | 35.670 | 49.825 | 15.603 | 104.538 | 1.099×10^6 | |
| 40.0 TeV | 4.000×10^7 | 3.479 | 47.779 | 66.615 | 21.300 | 139.173 | 1.182×10^6 | |
| 80.0 TeV | 8.000×10^7 | 3.573 | 96.349 | 133.832 | 45.207 | 278.961 | 1.381×10^6 | |
| 100. TeV | 1.000×10^8 | 3.605 | 120.703 | 167.479 | 57.600 | 349.388 | 1.445×10^6 | |