Muons in Kolar Gold Fields rock

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.48605	3.020	183.4	0.15473	3.0000	0.2000	3.0000	4.3177	0.00

T	p [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm^2]
		[MeV cm^2/g]					
10.0 MeV	4.704×10^1	6.167				6.168	9.047×10^{-1}
14.0 MeV	5.616×10^1	4.834				4.834	1.645×10^0
20.0 MeV	6.802×10^1	3.793				3.793	3.062×10^0
30.0 MeV	8.509×10^1	2.957				2.957	6.089×10^0
40.0 MeV	1.003×10^2	2.533				2.533	9.766×10^0
80.0 MeV	1.527×10^2	1.916				1.916	2.849×10^1
100. MeV	1.764×10^2	1.804				1.804	3.927×10^1
140. MeV	2.218×10^2	1.688				1.688	6.231×10^1
200. MeV	2.868×10^2	1.625				1.625	9.867×10^1
283. MeV	3.738×10^2	1.607			0.000	1.607	*Minimum ionization*
300. MeV	3.917×10^2	1.607			0.000	1.608	1.607×10^2
400. MeV	4.945×10^2	1.620			0.000	1.620	2.227×10^2
800. MeV	8.995×10^2	1.700	0.000		0.000	1.700	4.637×10^2
1.00 GeV	1.101×10^3	1.734	0.000		0.000	1.734	5.801×10^2
1.40 GeV	1.502×10^3	1.788	0.001	0.000	0.001	1.790	8.070×10^2
2.00 GeV	2.103×10^3	1.848	0.001	0.000	0.001	1.850	1.136×10^3
3.00 GeV	3.104×10^3	1.916	0.002	0.001	0.001	1.920	1.666×10^3
4.00 GeV	4.104×10^3	1.963	0.002	0.002	0.002	1.969	2.180×10^3
8.00 GeV	8.105×10^3	2.069	0.006	0.006	0.004	2.084	4.148×10^3
10.0 GeV	1.011×10^4	2.101	0.008	0.008	0.005	2.121	5.099×10^3
14.0 GeV	1.411×10^4	2.147	0.011	0.013	0.006	2.178	6.959×10^3
20.0 GeV	2.011×10^4	2.193	0.018	0.021	0.009	2.241	9.673×10^3
30.0 GeV	3.011×10^4	2.242	0.029	0.036	0.013	2.320	1.406×10^4
40.0 GeV	4.011×10^4	2.275	0.041	0.053	0.017	2.386	1.830×10^4
80.0 GeV	8.011×10^4	2.349	0.093	0.126	0.033	2.602	3.433×10^4
100. GeV	1.001×10^5	2.372	0.121	0.166	0.041	2.700	4.188×10^4
140. GeV	1.401×10^5	2.406	0.178	0.249	0.056	2.890	5.619×10^4
200. GeV	2.001×10^5	2.442	0.267	0.379	0.080	3.169	7.601×10^4
300. GeV	3.001×10^5	2.482	0.421	0.601	0.120	3.624	1.055×10^5
400. GeV	4.001×10^5	2.511	0.579	0.831	0.160	4.082	1.315×10^5
624. GeV	6.238×10^5	2.555	0.944	1.360	0.251	5.111	*Muon critical energy*
800. GeV	8.001×10^5	2.580	1.238	1.785	0.323	5.927	2.124×10^5
1.00 TeV	1.000×10^6	2.603	1.577	2.276	0.406	6.863	2.437×10^5
1.40 TeV	1.400×10^6	2.637	2.260	3.253	0.576	8.726	2.953×10^5
2.00 TeV	2.000×10^6	2.674	3.306	4.748	0.834	11.562	3.548×10^5
3.00 TeV	3.000×10^6	2.717	5.057	7.233	1.277	16.284	4.274×10^5
4.00 TeV	4.000×10^6	2.747	6.836	9.750	1.727	21.060	4.812×10^5
8.00 TeV	8.000×10^6	2.823	14.024	19.878	3.599	40.324	6.162×10^5
10.0 TeV	1.000×10^7	2.848	17.653	24.974	4.562	50.038	6.606×10^5
14.0 TeV	1.400×10^7	2.885	24.900	35.134	6.544	69.464	7.282×10^5
20.0 TeV	2.000×10^7	2.926	35.852	50.449	9.587	98.815	8.002×10^5
30.0 TeV	3.000×10^7	2.973	54.064	75.941	14.860	147.839	8.824×10^5
40.0 TeV	4.000×10^7	3.007	72.355	101.509	20.267	197.139	9.408×10^5
80.0 TeV	8.000×10^7	3.091	145.699	203.858	42.914	395.563	1.081×10^6
100. TeV	1.000×10^8	3.119	182.463	255.089	54.637	495.308	1.126×10^6