Table 313: Muons in Meitnerium

Z	A [g/mol]	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
109 (Mt)	[268.1387]	??	1115.0	0.27580	3.0000	0.6426	3.0000	6.5724	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	3.624				3.624	1.643×10^0
14.0 MeV	5.616×10^1	2.925				2.925	2.882×10^0
20.0 MeV	6.802×10^1	2.352				2.352	5.191×10^0
30.0 MeV	8.509×10^1	1.875				1.875	1.001×10^1
40.0 MeV	1.003×10^2	1.628				1.628	1.577×10^1
80.0 MeV	1.527×10^2	1.264				1.264	4.445×10^1
100. MeV	1.764×10^2	1.201				1.201	6.072×10^1
140. MeV	2.218×10^2	1.144				1.144	9.498×10^1
200. MeV	2.868×10^2	1.123	0.000			1.123	1.481×10^2
207. MeV	2.943×10^2	1.123	0.000			1.123	*Minimum ionization*
300. MeV	3.917×10^2	1.137	0.000		0.000	1.138	2.367×10^2
400. MeV	4.945×10^2	1.166	0.000		0.000	1.167	3.236×10^2
800. MeV	8.995×10^2	1.268	0.001		0.000	1.270	6.512×10^2
1.00 GeV	1.101×10^3	1.305	0.002		0.000	1.308	8.064×10^2
1.40 GeV	1.502×10^3	1.363	0.003		0.000	1.367	1.105×10^3
2.00 GeV	2.103×10^3	1.424	0.005	0.000	0.001	1.430	1.534×10^3
3.00 GeV	3.104×10^3	1.490	0.009	0.003	0.001	1.504	2.214×10^3
4.00 GeV	4.104×10^3	1.536	0.014	0.007	0.001	1.558	2.867×10^3
8.00 GeV	8.105×10^3	1.635	0.033	0.025	0.003	1.698	5.317×10^3
10.0 GeV	1.011×10^4	1.665	0.044	0.037	0.004	1.750	6.477×10^3
14.0 GeV	1.411×10^4	1.706	0.068	0.061	0.005	1.841	8.703×10^3
20.0 GeV	2.011×10^4	1.747	0.106	0.102	0.007	1.962	1.186×10^4
30.0 GeV	3.011×10^4	1.789	0.173	0.182	0.010	2.156	1.672×10^4
40.0 GeV	4.011×10^4	1.817	0.245	0.270	0.014	2.347	2.116×10^4
80.0 GeV	8.011×10^4	1.880	0.553	0.662	0.027	3.124	3.589×10^4
100. GeV	1.001×10^5	1.899	0.717	0.874	0.034	3.525	4.192×10^4
115. GeV	1.150×10^5	1.911	0.840	1.033	0.039	3.824	*Muon critical energy*
140. GeV	1.401×10^5	1.928	1.052	1.310	0.047	4.338	5.213×10^4
200. GeV	2.001×10^5	1.957	1.576	2.002	0.067	5.604	6.428×10^4
300. GeV	3.001×10^5	1.991	2.469	3.157	0.100	7.719	7.943×10^4
400. GeV	4.001×10^5	2.015	3.392	4.355	0.133	9.897	9.085×10^4
800. GeV	8.001×10^5	2.073	7.195	9.266	0.269	18.807	1.197×10^5
1.00 TeV	1.000×10^6	2.092	9.147	11.779	0.338	23.359	1.292×10^5
1.40 TeV	1.400×10^6	2.121	13.054	16.788	0.479	32.445	1.437×10^5
2.00 TeV	2.000×10^6	2.152	19.025	24.433	0.693	46.305	1.591×10^5
3.00 TeV	3.000×10^6	2.188	28.984	37.133	1.058	69.365	1.766×10^5
4.00 TeV	4.000×10^6	2.213	39.068	49.968	1.430	92.681	1.891×10^5
8.00 TeV	8.000×10^6	2.276	79.685	101.552	2.967	186.483	2.189×10^5
10.0 TeV	1.000×10^7	2.297	100.137	127.478	3.756	233.671	2.284×10^5
14.0 TeV	1.400×10^7	2.329	140.929	179.211	5.374	327.845	2.428×10^5
20.0 TeV	2.000×10^7	2.363	202.444	257.138	7.852	469.799	2.580×10^5
30.0 TeV	3.000×10^7	2.402	304.951	386.772	12.130	706.257	2.753×10^5
40.0 TeV	4.000×10^7	2.431	407.817	516.703	16.506	943.459	2.875×10^5
80.0 TeV	8.000×10^7	2.501	819.240	1036.796	34.759	1893.298	3.168×10^5
100. TeV	1.000×10^8	2.524	1025.070	1297.080	44.180	2368.856	3.262×10^5