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)	[276.151 (5)]	??	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	0.000			1.090	1.525×10^2
207. MeV	2.943×10^2	1.090	0.000			1.090	*Minimum ionization*
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	0.014	0.007	0.001	1.515	2.951×10^3
8.00 GeV	8.105×10^3	1.590	0.033	0.025	0.003	1.652	5.469×10^3
10.0 GeV	1.011×10^4	1.618	0.044	0.037	0.004	1.704	6.661×10^3
14.0 GeV	1.411×10^4	1.658	0.068	0.061	0.005	1.793	8.948×10^3
20.0 GeV	2.011×10^4	1.698	0.106	0.102	0.007	1.913	1.218×10^4
30.0 GeV	3.011×10^4	1.739	0.173	0.182	0.010	2.106	1.716×10^4
40.0 GeV	4.011×10^4	1.766	0.245	0.270	0.014	2.296	2.171×10^4
80.0 GeV	8.011×10^4	1.827	0.553	0.662	0.027	3.071	3.673×10^4
100. GeV	1.001×10^5	1.846	0.717	0.874	0.034	3.472	4.285×10^4
112. GeV	1.121×10^5	1.855	0.816	1.002	0.038	3.713	*Muon critical energy*
140. GeV	1.401×10^5	1.873	1.052	1.310	0.047	4.284	5.321×10^4
200. GeV	2.001×10^5	1.902	1.576	2.002	0.067	5.549	6.550×10^4
300. GeV	3.001×10^5	1.935	2.469	3.157	0.100	7.663	8.078×10^4
400. GeV	4.001×10^5	1.958	3.392	4.355	0.133	9.840	9.227×10^4
800. GeV	8.001×10^5	2.015	7.195	9.266	0.269	18.748	1.212×10^5
1.00 TeV	1.000×10^6	2.033	9.147	11.779	0.338	23.300	1.308×10^5
1.40 TeV	1.400×10^6	2.061	13.054	16.788	0.479	32.385	1.453×10^5
2.00 TeV	2.000×10^6	2.091	19.025	24.433	0.693	46.244	1.607×10^5
3.00 TeV	3.000×10^6	2.126	28.984	37.133	1.058	69.303	1.783×10^5
4.00 TeV	4.000×10^6	2.151	39.068	49.968	1.430	92.618	1.907×10^5
8.00 TeV	8.000×10^6	2.212	79.685	101.552	2.967	186.418	2.206×10^5
10.0 TeV	1.000×10^7	2.232	100.137	127.478	3.756	233.606	2.301×10^5
14.0 TeV	1.400×10^7	2.263	140.929	179.211	5.374	327.779	2.445×10^5
20.0 TeV	2.000×10^7	2.296	202.444	257.138	7.852	469.732	2.597×10^5
30.0 TeV	3.000×10^7	2.334	304.951	386.772	12.130	706.189	2.770×10^5
40.0 TeV	4.000×10^7	2.362	407.817	516.703	16.506	943.390	2.892×10^5
80.0 TeV	8.000×10^7	2.430	819.240	1036.796	34.759	1893.228	3.185×10^5
100. TeV	1.000×10^8	2.452	1025.070	1297.080	44.180	2368.785	3.279×10^5