Table 306: Muons in Nobelium

Z	A [g/mol]	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
102 (No)	[259.1010 (7)]	??	1020.0	0.26500	3.0000	0.5950	3.0000	6.4264	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	3.603				3.603	1.639×10^0
14.0 MeV	5.616×10^1	2.897				2.897	2.888×10^0
20.0 MeV	6.802×10^1	2.323				2.323	5.223×10^0
30.0 MeV	8.509×10^1	1.847				1.848	1.011×10^1
40.0 MeV	1.003×10^2	1.601				1.602	1.596×10^1
80.0 MeV	1.527×10^2	1.241				1.241	4.515×10^1
100. MeV	1.764×10^2	1.178				1.179	6.173×10^1
140. MeV	2.218×10^2	1.121				1.121	9.667×10^1
200. MeV	2.868×10^2	1.100				1.100	1.509×10^2
210. MeV	2.977×10^2	1.099	0.000			1.100	*Minimum ionization*
300. MeV	3.917×10^2	1.113	0.000		0.000	1.113	2.414×10^2
400. MeV	4.945×10^2	1.140	0.000		0.000	1.141	3.302×10^2
800. MeV	8.995×10^2	1.235	0.001		0.000	1.237	6.660×10^2
1.00 GeV	1.101×10^3	1.271	0.002		0.000	1.273	8.252×10^2
1.40 GeV	1.502×10^3	1.326	0.003		0.000	1.329	1.132×10^3
2.00 GeV	2.103×10^3	1.384	0.005	0.001	0.001	1.390	1.573×10^3
3.00 GeV	3.104×10^3	1.448	0.008	0.003	0.001	1.461	2.274×10^3
4.00 GeV	4.104×10^3	1.491	0.012	0.006	0.001	1.512	2.946×10^3
8.00 GeV	8.105×10^3	1.587	0.030	0.024	0.003	1.645	5.473×10^3
10.0 GeV	1.011×10^4	1.615	0.040	0.035	0.004	1.694	6.671×10^3
14.0 GeV	1.411×10^4	1.655	0.062	0.057	0.005	1.780	8.973×10^3
20.0 GeV	2.011×10^4	1.694	0.096	0.095	0.007	1.893	1.224×10^4
30.0 GeV	3.011×10^4	1.735	0.157	0.169	0.011	2.073	1.728×10^4
40.0 GeV	4.011×10^4	1.762	0.222	0.251	0.014	2.251	2.191×10^4
80.0 GeV	8.011×10^4	1.823	0.503	0.613	0.027	2.967	3.735×10^4
100. GeV	1.001×10^5	1.841	0.652	0.809	0.034	3.337	4.370×10^4
120. GeV	1.205×10^5	1.856	0.805	1.011	0.040	3.715	*Muon critical energy*
140. GeV	1.401×10^5	1.869	0.957	1.211	0.047	4.085	5.452×10^4
200. GeV	2.001×10^5	1.898	1.433	1.850	0.067	5.250	6.746×10^4
300. GeV	3.001×10^5	1.930	2.246	2.917	0.100	7.195	8.368×10^4
400. GeV	4.001×10^5	1.953	3.086	4.022	0.134	9.197	9.594×10^4
800. GeV	8.001×10^5	2.010	6.548	8.554	0.270	17.384	1.271×10^5
1.00 TeV	1.000×10^6	2.028	8.324	10.873	0.339	21.566	1.374×10^5
1.40 TeV	1.400×10^6	2.056	11.881	15.495	0.481	29.915	1.531×10^5
2.00 TeV	2.000×10^6	2.086	17.318	22.548	0.695	42.649	1.698×10^5
3.00 TeV	3.000×10^6	2.120	26.387	34.267	1.062	63.838	1.888×10^5
4.00 TeV	4.000×10^6	2.145	35.570	46.109	1.434	85.261	2.023×10^5
8.00 TeV	8.000×10^6	2.206	72.562	93.705	2.977	171.452	2.348×10^5
10.0 TeV	1.000×10^7	2.226	91.191	117.626	3.768	214.814	2.452×10^5
14.0 TeV	1.400×10^7	2.257	128.346	165.359	5.391	301.355	2.608×10^5
20.0 TeV	2.000×10^7	2.290	184.378	237.260	7.878	431.808	2.774×10^5
30.0 TeV	3.000×10^7	2.328	277.750	356.871	12.170	649.122	2.961×10^5
40.0 TeV	4.000×10^7	2.356	371.452	476.756	16.561	867.127	3.094×10^5
80.0 TeV	8.000×10^7	2.424	746.229	956.644	34.882	1740.182	3.413×10^5
100. TeV	1.000×10^8	2.446	933.730	1196.810	44.340	2177.328	3.516×10^5