

Muons in nihonium (Nh)

Z	A [g/mol]	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
113 (Nh)	[286.18221(6)]	??	1171.0	0.28517	3.0000	0.6818	3.0000	6.6925	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	3.490				3.490	1.714×10^0
14.0 MeV	5.616×10^1	2.823				2.823	2.999×10^0
20.0 MeV	6.802×10^1	2.275				2.275	5.389×10^0
30.0 MeV	8.509×10^1	1.816				1.816	1.037×10^1
40.0 MeV	1.003×10^2	1.578				1.578	1.631×10^1
80.0 MeV	1.527×10^2	1.227				1.227	4.587×10^1
100. MeV	1.764×10^2	1.167				1.167	6.262×10^1
140. MeV	2.218×10^2	1.111				1.111	9.790×10^1
200. MeV	2.868×10^2	1.091	0.000			1.092	1.525×10^2
207. MeV	2.943×10^2	1.091	0.000			1.092	<i>Minimum ionization</i>
300. MeV	3.917×10^2	1.106	0.000		0.000	1.107	2.437×10^2
400. MeV	4.945×10^2	1.134	0.000		0.000	1.135	3.330×10^2
800. MeV	8.995×10^2	1.236	0.001		0.000	1.238	6.693×10^2
1.00 GeV	1.101×10^3	1.273	0.002		0.000	1.276	8.284×10^2
1.40 GeV	1.502×10^3	1.331	0.003		0.000	1.335	1.135×10^3
2.00 GeV	2.103×10^3	1.391	0.005	0.000	0.001	1.397	1.573×10^3
3.00 GeV	3.104×10^3	1.457	0.009	0.003	0.001	1.471	2.270×10^3
4.00 GeV	4.104×10^3	1.502	0.014	0.006	0.001	1.524	2.937×10^3
8.00 GeV	8.105×10^3	1.600	0.033	0.025	0.003	1.662	5.440×10^3
10.0 GeV	1.011×10^4	1.629	0.044	0.036	0.004	1.714	6.625×10^3
14.0 GeV	1.411×10^4	1.670	0.068	0.060	0.005	1.804	8.897×10^3
20.0 GeV	2.011×10^4	1.710	0.106	0.101	0.007	1.925	1.212×10^4
30.0 GeV	3.011×10^4	1.752	0.173	0.180	0.010	2.117	1.707×10^4
40.0 GeV	4.011×10^4	1.779	0.245	0.268	0.014	2.308	2.159×10^4
80.0 GeV	8.011×10^4	1.840	0.555	0.658	0.027	3.082	3.655×10^4
100. GeV	1.001×10^5	1.859	0.719	0.869	0.033	3.482	4.265×10^4
113. GeV	1.130×10^5	1.869	0.825	1.007	0.038	3.740	<i>Muon critical energy</i>
140. GeV	1.401×10^5	1.887	1.055	1.304	0.047	4.294	5.298×10^4
200. GeV	2.001×10^5	1.916	1.580	1.994	0.066	5.558	6.524×10^4
300. GeV	3.001×10^5	1.949	2.476	3.145	0.099	7.671	8.051×10^4
400. GeV	4.001×10^5	1.973	3.401	4.338	0.132	9.847	9.199×10^4
800. GeV	8.001×10^5	2.029	7.215	9.234	0.268	18.748	1.210×10^5
1.00 TeV	1.000×10^6	2.048	9.172	11.739	0.336	23.297	1.305×10^5
1.40 TeV	1.400×10^6	2.076	13.089	16.731	0.476	32.374	1.450×10^5
2.00 TeV	2.000×10^6	2.106	19.075	24.350	0.688	46.222	1.604×10^5
3.00 TeV	3.000×10^6	2.141	29.060	37.009	1.052	69.264	1.780×10^5
4.00 TeV	4.000×10^6	2.166	39.168	49.804	1.421	92.562	1.905×10^5
8.00 TeV	8.000×10^6	2.228	79.886	101.219	2.948	186.284	2.203×10^5
10.0 TeV	1.000×10^7	2.248	100.388	127.059	3.732	233.430	2.299×10^5
14.0 TeV	1.400×10^7	2.279	141.279	178.630	5.339	327.530	2.443×10^5
20.0 TeV	2.000×10^7	2.313	202.942	256.318	7.800	469.375	2.595×10^5
30.0 TeV	3.000×10^7	2.351	305.695	385.539	12.050	705.638	2.768×10^5
40.0 TeV	4.000×10^7	2.379	408.807	515.057	16.399	942.644	2.890×10^5
80.0 TeV	8.000×10^7	2.447	821.210	1033.495	34.533	1891.687	3.183×10^5
100. TeV	1.000×10^8	2.470	1027.530	1292.950	43.890	2366.843	3.278×10^5