

Muons in hassium (Hs)

Z	A [g/mol]	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
108 (Hs)	[269.13375(13)]	??	1102.0	0.27500	3.0000	0.6392	3.0000	6.5619	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	3.590				3.590	1.656×10^0		
14.0 MeV	5.616×10^1	2.896				2.896	2.907×10^0		
20.0 MeV	6.802×10^1	2.328				2.328	5.240×10^0		
30.0 MeV	8.509×10^1	1.855				1.855	1.011×10^1		
40.0 MeV	1.003×10^2	1.610				1.610	1.593×10^1		
80.0 MeV	1.527×10^2	1.250				1.250	4.493×10^1		
100. MeV	1.764×10^2	1.188				1.188	6.138×10^1		
140. MeV	2.218×10^2	1.131				1.131	9.603×10^1		
200. MeV	2.868×10^2	1.110				1.110	1.497×10^2		
207. MeV	2.943×10^2	1.110	0.000			1.110	<i>Minimum ionization</i>		
300. MeV	3.917×10^2	1.124	0.000		0.000	1.125	2.394×10^2		
400. MeV	4.945×10^2	1.153	0.000		0.000	1.153	3.272×10^2		
800. MeV	8.995×10^2	1.253	0.001		0.000	1.254	6.588×10^2		
1.00 GeV	1.101×10^3	1.289	0.002		0.000	1.292	8.158×10^2		
1.40 GeV	1.502×10^3	1.346	0.003		0.000	1.350	1.118×10^3		
2.00 GeV	2.103×10^3	1.406	0.005	0.000	0.001	1.413	1.552×10^3		
3.00 GeV	3.104×10^3	1.472	0.009	0.003	0.001	1.486	2.241×10^3		
4.00 GeV	4.104×10^3	1.517	0.013	0.006	0.001	1.539	2.902×10^3		
8.00 GeV	8.105×10^3	1.615	0.033	0.025	0.003	1.677	5.383×10^3		
10.0 GeV	1.011×10^4	1.644	0.043	0.036	0.004	1.728	6.557×10^3		
14.0 GeV	1.411×10^4	1.685	0.066	0.060	0.005	1.817	8.812×10^3		
20.0 GeV	2.011×10^4	1.725	0.103	0.100	0.007	1.937	1.201×10^4		
30.0 GeV	3.011×10^4	1.767	0.169	0.179	0.011	2.127	1.693×10^4		
40.0 GeV	4.011×10^4	1.795	0.239	0.265	0.014	2.315	2.144×10^4		
80.0 GeV	8.011×10^4	1.857	0.541	0.649	0.027	3.076	3.639×10^4		
100. GeV	1.001×10^5	1.876	0.701	0.857	0.034	3.469	4.251×10^4		
116. GeV	1.158×10^5	1.888	0.828	1.022	0.039	3.778	<i>Muon critical energy</i>		
140. GeV	1.401×10^5	1.904	1.029	1.285	0.047	4.266	5.290×10^4		
200. GeV	2.001×10^5	1.933	1.541	1.964	0.067	5.507	6.525×10^4		
300. GeV	3.001×10^5	1.966	2.415	3.096	0.100	7.580	8.068×10^4		
400. GeV	4.001×10^5	1.990	3.318	4.271	0.133	9.714	9.231×10^4		
800. GeV	8.001×10^5	2.048	7.039	9.087	0.269	18.445	1.217×10^5		
1.00 TeV	1.000×10^6	2.066	8.949	11.551	0.338	22.907	1.314×10^5		
1.40 TeV	1.400×10^6	2.095	12.772	16.463	0.479	31.810	1.462×10^5		
2.00 TeV	2.000×10^6	2.125	18.614	23.958	0.692	45.391	1.619×10^5		
3.00 TeV	3.000×10^6	2.160	28.358	36.412	1.058	67.990	1.798×10^5		
4.00 TeV	4.000×10^6	2.186	38.224	48.998	1.429	90.840	1.925×10^5		
8.00 TeV	8.000×10^6	2.248	77.967	99.578	2.966	182.761	2.229×10^5		
10.0 TeV	1.000×10^7	2.268	97.979	124.997	3.754	229.001	2.326×10^5		
14.0 TeV	1.400×10^7	2.300	137.893	175.729	5.371	321.295	2.473×10^5		
20.0 TeV	2.000×10^7	2.333	198.084	252.152	7.848	460.420	2.628×10^5		
30.0 TeV	3.000×10^7	2.372	298.386	379.273	12.124	692.157	2.804×10^5		
40.0 TeV	4.000×10^7	2.400	399.040	506.685	16.498	924.625	2.929×10^5		
80.0 TeV	8.000×10^7	2.469	801.615	1016.683	34.749	1855.519	3.228×10^5		
100. TeV	1.000×10^8	2.492	1003.020	1271.910	44.170	2321.595	3.324×10^5		