

Table 311: Muons in Bohrium

Z	A [g/mol]	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
107 (Bh)	[264.]	??	1087.0	0.27219	3.0000	0.6270	3.0000	6.5246	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	3.641				3.641	1.631×10^0		
14.0 MeV	5.616×10^1	2.935				2.936	2.865×10^0		
20.0 MeV	6.802×10^1	2.359				2.359	5.167×10^0		
30.0 MeV	8.509×10^1	1.879				1.879	9.975×10^0		
40.0 MeV	1.003×10^2	1.630				1.630	1.572×10^1		
80.0 MeV	1.527×10^2	1.265				1.265	4.437×10^1		
100. MeV	1.764×10^2	1.202				1.202	6.062×10^1		
140. MeV	2.218×10^2	1.144				1.144	9.487×10^1		
200. MeV	2.868×10^2	1.123	0.000			1.123	1.480×10^2		
207. MeV	2.943×10^2	1.123	0.000			1.123	<i>Minimum ionization</i>		
300. MeV	3.917×10^2	1.137	0.000		0.000	1.138	2.366×10^2		
400. MeV	4.945×10^2	1.166	0.000		0.000	1.167	3.234×10^2		
800. MeV	8.995×10^2	1.266	0.001		0.000	1.268	6.514×10^2		
1.00 GeV	1.101×10^3	1.303	0.002		0.000	1.306	8.067×10^2		
1.40 GeV	1.502×10^3	1.360	0.003		0.000	1.364	1.106×10^3		
2.00 GeV	2.103×10^3	1.421	0.005	0.000	0.001	1.427	1.536×10^3		
3.00 GeV	3.104×10^3	1.487	0.009	0.003	0.001	1.501	2.218×10^3		
4.00 GeV	4.104×10^3	1.532	0.013	0.007	0.001	1.554	2.872×10^3		
8.00 GeV	8.105×10^3	1.631	0.033	0.025	0.003	1.693	5.328×10^3		
10.0 GeV	1.011×10^4	1.660	0.044	0.037	0.004	1.745	6.491×10^3		
14.0 GeV	1.411×10^4	1.701	0.067	0.061	0.005	1.835	8.725×10^3		
20.0 GeV	2.011×10^4	1.742	0.104	0.101	0.007	1.956	1.189×10^4		
30.0 GeV	3.011×10^4	1.784	0.171	0.181	0.010	2.148	1.677×10^4		
40.0 GeV	4.011×10^4	1.812	0.241	0.268	0.014	2.337	2.123×10^4		
80.0 GeV	8.011×10^4	1.875	0.546	0.656	0.027	3.106	3.603×10^4		
100. GeV	1.001×10^5	1.894	0.708	0.867	0.034	3.503	4.210×10^4		
116. GeV	1.157×10^5	1.906	0.835	1.032	0.039	3.814	<i>Muon critical energy</i>		
140. GeV	1.401×10^5	1.922	1.038	1.299	0.047	4.308	5.238×10^4		
200. GeV	2.001×10^5	1.952	1.556	1.985	0.067	5.561	6.462×10^4		
300. GeV	3.001×10^5	1.985	2.438	3.129	0.100	7.655	7.989×10^4		
400. GeV	4.001×10^5	2.009	3.349	4.316	0.134	9.810	9.141×10^4		
800. GeV	8.001×10^5	2.067	7.105	9.182	0.270	18.627	1.205×10^5		
1.00 TeV	1.000×10^6	2.086	9.032	11.672	0.339	23.132	1.301×10^5		
1.40 TeV	1.400×10^6	2.115	12.891	16.635	0.480	32.123	1.448×10^5		
2.00 TeV	2.000×10^6	2.146	18.787	24.209	0.694	45.839	1.603×10^5		
3.00 TeV	3.000×10^6	2.181	28.623	36.793	1.061	68.660	1.780×10^5		
4.00 TeV	4.000×10^6	2.207	38.581	49.509	1.433	91.733	1.906×10^5		
8.00 TeV	8.000×10^6	2.270	78.696	100.619	2.974	184.560	2.207×10^5		
10.0 TeV	1.000×10^7	2.290	98.895	126.306	3.764	231.258	2.304×10^5		
14.0 TeV	1.400×10^7	2.322	139.183	177.563	5.385	324.455	2.449×10^5		
20.0 TeV	2.000×10^7	2.356	199.938	254.774	7.868	464.938	2.603×10^5		
30.0 TeV	3.000×10^7	2.395	301.179	383.215	12.155	698.947	2.777×10^5		
40.0 TeV	4.000×10^7	2.424	402.775	511.951	16.541	933.692	2.900×10^5		
80.0 TeV	8.000×10^7	2.493	809.119	1027.254	34.837	1873.707	3.197×10^5		
100. TeV	1.000×10^8	2.516	1012.410	1285.140	44.280	2344.349	3.292×10^5		