

Table 321: Muons in Not yet discovered

Z	A [g/mol]	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
117 ()	[292.0000]	??	1227.0	0.29217	3.0000	0.7097	3.0000	6.7783	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	3.462				3.462	1.738×10^0		
14.0 MeV	5.616×10^1	2.808				2.808	3.031×10^0		
20.0 MeV	6.802×10^1	2.267				2.267	5.431×10^0		
30.0 MeV	8.509×10^1	1.813				1.813	1.042×10^1		
40.0 MeV	1.003×10^2	1.576				1.576	1.637×10^1		
80.0 MeV	1.527×10^2	1.228				1.228	4.595×10^1		
100. MeV	1.764×10^2	1.167				1.167	6.269×10^1		
140. MeV	2.218×10^2	1.112				1.113	9.793×10^1		
200. MeV	2.868×10^2	1.093	0.000			1.093	1.525×10^2		
206. MeV	2.933×10^2	1.093	0.000			1.093	<i>Minimum ionization</i>		
300. MeV	3.917×10^2	1.108	0.000		0.000	1.109	2.435×10^2		
400. MeV	4.945×10^2	1.137	0.000		0.000	1.138	3.326×10^2		
800. MeV	8.995×10^2	1.241	0.001		0.000	1.243	6.678×10^2		
1.00 GeV	1.101×10^3	1.279	0.002		0.000	1.282	8.262×10^2		
1.40 GeV	1.502×10^3	1.338	0.003		0.000	1.342	1.131×10^3		
2.00 GeV	2.103×10^3	1.399	0.005		0.001	1.405	1.567×10^3		
3.00 GeV	3.104×10^3	1.466	0.009	0.003	0.001	1.480	2.259×10^3		
4.00 GeV	4.104×10^3	1.512	0.014	0.006	0.001	1.534	2.922×10^3		
8.00 GeV	8.105×10^3	1.611	0.034	0.025	0.003	1.674	5.409×10^3		
10.0 GeV	1.011×10^4	1.641	0.045	0.036	0.004	1.727	6.585×10^3		
14.0 GeV	1.411×10^4	1.682	0.069	0.060	0.005	1.818	8.841×10^3		
20.0 GeV	2.011×10^4	1.722	0.108	0.101	0.007	1.939	1.204×10^4		
30.0 GeV	3.011×10^4	1.764	0.177	0.182	0.010	2.134	1.695×10^4		
40.0 GeV	4.011×10^4	1.792	0.250	0.270	0.014	2.327	2.143×10^4		
80.0 GeV	8.011×10^4	1.854	0.565	0.665	0.027	3.112	3.625×10^4		
100. GeV	1.001×10^5	1.873	0.732	0.878	0.033	3.519	4.229×10^4		
112. GeV	1.123×10^5	1.883	0.836	1.010	0.037	3.767	<i>Muon critical energy</i>		
140. GeV	1.401×10^5	1.901	1.075	1.318	0.046	4.342	5.252×10^4		
200. GeV	2.001×10^5	1.930	1.611	2.016	0.066	5.625	6.463×10^4		
300. GeV	3.001×10^5	1.964	2.523	3.181	0.099	7.769	7.971×10^4		
400. GeV	4.001×10^5	1.987	3.466	4.390	0.132	9.977	9.104×10^4		
800. GeV	8.001×10^5	2.044	7.353	9.346	0.266	19.012	1.196×10^5		
1.00 TeV	1.000×10^6	2.063	9.347	11.882	0.335	23.629	1.290×10^5		
1.40 TeV	1.400×10^6	2.092	13.339	16.936	0.474	32.843	1.433×10^5		
2.00 TeV	2.000×10^6	2.122	19.439	24.651	0.685	46.900	1.586×10^5		
3.00 TeV	3.000×10^6	2.157	29.612	37.468	1.047	70.286	1.759×10^5		
4.00 TeV	4.000×10^6	2.182	39.912	50.421	1.414	93.932	1.881×10^5		
8.00 TeV	8.000×10^6	2.245	81.397	102.481	2.935	189.060	2.175×10^5		
10.0 TeV	1.000×10^7	2.265	102.285	128.646	3.715	236.914	2.270×10^5		
14.0 TeV	1.400×10^7	2.296	143.947	180.856	5.314	332.416	2.412×10^5		
20.0 TeV	2.000×10^7	2.330	206.770	259.504	7.764	476.370	2.562×10^5		
30.0 TeV	3.000×10^7	2.369	311.456	390.335	11.994	716.156	2.732×10^5		
40.0 TeV	4.000×10^7	2.397	416.505	521.468	16.321	956.693	2.852×10^5		
80.0 TeV	8.000×10^7	2.466	836.650	1046.354	34.367	1919.839	3.141×10^5		
100. TeV	1.000×10^8	2.488	1046.840	1309.030	43.680	2402.041	3.234×10^5		