

Muons in heavymet as Rochester gamma stop

	$\langle Z/A \rangle$	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
	0.40915	19.300	727.0	0.15509	2.8447	0.2167	3.4960	5.4059	0.14
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	4.142				4.142		1.377×10^0	
14.0 MeV	5.616×10^1	3.280				3.280		2.472×10^0	
20.0 MeV	6.802×10^1	2.598				2.598		4.550×10^0	
30.0 MeV	8.509×10^1	2.044				2.044		8.946×10^0	
40.0 MeV	1.003×10^2	1.761				1.761		1.425×10^1	
80.0 MeV	1.527×10^2	1.347				1.347		4.101×10^1	
100. MeV	1.764×10^2	1.273				1.273		5.632×10^1	
140. MeV	2.218×10^2	1.202				1.202		8.880×10^1	
200. MeV	2.868×10^2	1.168				1.169		1.396×10^2	
242. MeV	3.316×10^2	1.164	0.000			1.164			<i>Minimum ionization</i>
300. MeV	3.917×10^2	1.169	0.000		0.000	1.169		2.254×10^2	
400. MeV	4.945×10^2	1.187	0.000		0.000	1.188		3.103×10^2	
800. MeV	8.995×10^2	1.268	0.001		0.000	1.269		6.356×10^2	
1.00 GeV	1.101×10^3	1.300	0.001		0.000	1.302		7.912×10^2	
1.40 GeV	1.502×10^3	1.351	0.002		0.001	1.354		1.092×10^3	
2.00 GeV	2.103×10^3	1.407	0.004	0.001	0.001	1.413		1.525×10^3	
3.00 GeV	3.104×10^3	1.470	0.006	0.003	0.001	1.481		2.216×10^3	
4.00 GeV	4.104×10^3	1.514	0.009	0.006	0.002	1.531		2.879×10^3	
8.00 GeV	8.105×10^3	1.613	0.022	0.020	0.003	1.658		5.380×10^3	
10.0 GeV	1.011×10^4	1.642	0.029	0.028	0.004	1.705		6.569×10^3	
14.0 GeV	1.411×10^4	1.685	0.045	0.046	0.005	1.782		8.862×10^3	
20.0 GeV	2.011×10^4	1.728	0.069	0.076	0.007	1.882		1.214×10^4	
30.0 GeV	3.011×10^4	1.773	0.114	0.133	0.011	2.032		1.725×10^4	
40.0 GeV	4.011×10^4	1.803	0.161	0.196	0.014	2.175		2.200×10^4	
80.0 GeV	8.011×10^4	1.870	0.363	0.472	0.028	2.735		3.836×10^4	
100. GeV	1.001×10^5	1.890	0.471	0.621	0.035	3.018		4.532×10^4	
140. GeV	1.401×10^5	1.920	0.691	0.928	0.049	3.589		5.746×10^4	
159. GeV	1.590×10^5	1.931	0.798	1.078	0.055	3.863			<i>Muon critical energy</i>
200. GeV	2.001×10^5	1.951	1.036	1.414	0.070	4.470		7.242×10^4	
300. GeV	3.001×10^5	1.985	1.624	2.225	0.104	5.939		9.178×10^4	
400. GeV	4.001×10^5	2.009	2.231	3.066	0.139	7.447		1.068×10^5	
800. GeV	8.001×10^5	2.067	4.739	6.513	0.281	13.602		1.460×10^5	
1.00 TeV	1.000×10^6	2.086	6.027	8.276	0.354	16.745		1.592×10^5	
1.40 TeV	1.400×10^6	2.115	8.607	11.793	0.501	23.017		1.795×10^5	
2.00 TeV	2.000×10^6	2.146	12.552	17.159	0.724	32.583		2.013×10^5	
3.00 TeV	3.000×10^6	2.182	19.135	26.075	1.107	48.501		2.263×10^5	
4.00 TeV	4.000×10^6	2.208	25.805	35.085	1.496	64.595		2.441×10^5	
8.00 TeV	8.000×10^6	2.272	52.684	71.300	3.106	129.365		2.870×10^5	
10.0 TeV	1.000×10^7	2.292	66.226	89.503	3.933	161.956		3.008×10^5	
14.0 TeV	1.400×10^7	2.324	93.235	125.824	5.630	227.014		3.216×10^5	
20.0 TeV	2.000×10^7	2.359	133.978	180.536	8.229	325.102		3.435×10^5	
30.0 TeV	3.000×10^7	2.398	201.805	271.564	12.718	488.488		3.685×10^5	
40.0 TeV	4.000×10^7	2.427	269.867	362.805	17.312	652.413		3.861×10^5	
80.0 TeV	8.000×10^7	2.497	542.495	728.005	36.486	1309.486		4.285×10^5	
100. TeV	1.000×10^8	2.521	679.027	910.765	46.386	1638.700		4.422×10^5	