Table 327: Muons in Lanthanam bromide [$LaBr_3$]

$\langle Z/A\rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.42787	5.290	454.5	0.21967	3.0000	0.3581	3.0000	5.6997	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	4.709				4.709	1.201×10^0
14.0 MeV	5.616×10^1	3.715				3.715	2.167×10^0
20.0 MeV	6.802×10^1	2.932				2.932	4.004×10^0
30.0 MeV	8.509×10^1	2.300				2.300	7.907×10^0
40.0 MeV	1.003×10^2	1.978				1.978	1.262×10^1
80.0 MeV	1.527×10^2	1.510				1.510	3.648×10^1
100. MeV	1.764×10^2	1.428				1.428	5.013×10^1
140. MeV	2.218×10^2	1.350				1.351	7.906×10^1
200. MeV	2.868×10^2	1.316				1.316	1.242×10^2
237. MeV	3.260×10^2	1.313				1.313	*Minimum ionization*
300. MeV	3.917×10^2	1.319	0.000		0.000	1.319	2.003×10^2
400. MeV	4.945×10^2	1.340	0.000		0.000	1.340	2.755×10^2
800. MeV	8.995×10^2	1.429	0.001		0.000	1.430	5.640×10^2
1.00 GeV	1.101×10^3	1.464	0.001		0.000	1.465	7.021×10^2
1.40 GeV	1.502×10^3	1.519	0.001	0.000	0.001	1.521	9.698×10^2
2.00 GeV	2.103×10^3	1.577	0.002	0.001	0.001	1.582	1.356×10^3
3.00 GeV	3.104×10^3	1.643	0.004	0.003	0.001	1.651	1.974×10^3
4.00 GeV	4.104×10^3	1.687	0.006	0.005	0.002	1.700	2.570×10^3
8.00 GeV	8.105×10^3	1.787	0.015	0.015	0.003	1.820	4.836×10^3
10.0 GeV	1.011×10^4	1.817	0.020	0.021	0.004	1.862	5.922×10^3
14.0 GeV	1.411×10^4	1.859	0.030	0.033	0.006	1.928	8.031×10^3
20.0 GeV	2.011×10^4	1.901	0.047	0.054	0.008	2.010	1.108×10^4
30.0 GeV	3.011×10^4	1.945	0.077	0.095	0.012	2.128	1.591×10^4
40.0 GeV	4.011×10^4	1.974	0.109	0.138	0.015	2.237	2.049×10^4
80.0 GeV	8.011×10^4	2.039	0.246	0.332	0.030	2.648	3.689×10^4
100. GeV	1.001×10^5	2.060	0.319	0.437	0.037	2.852	4.417×10^4
140. GeV	1.401×10^5	2.090	0.468	0.652	0.051	3.261	5.728×10^4
200. GeV	2.001×10^5	2.121	0.702	0.992	0.073	3.888	7.411×10^4
237. GeV	2.373×10^5	2.136	0.848	1.201	0.086	4.273	*Muon critical energy*
300. GeV	3.001×10^5	2.156	1.101	1.562	0.109	4.929	9.691×10^4
400. GeV	4.001×10^5	2.182	1.513	2.153	0.146	5.994	1.153×10^5
800. GeV	8.001×10^5	2.243	3.218	4.575	0.294	10.332	1.655×10^5
1.00 TeV	1.000×10^6	2.263	4.095	5.815	0.369	12.543	1.831×10^5
1.40 TeV	1.400×10^6	2.293	5.852	8.289	0.523	16.959	2.104×10^5
2.00 TeV	2.000×10^6	2.326	8.540	12.065	0.757	23.689	2.402×10^5
3.00 TeV	3.000×10^6	2.363	13.030	18.340	1.158	34.893	2.748×10^5
4.00 TeV	4.000×10^6	2.390	17.581	24.683	1.565	46.221	2.996×10^5
8.00 TeV	8.000×10^6	2.457	35.936	50.185	3.253	91.831	3.598×10^5
10.0 TeV	1.000×10^7	2.478	45.187	63.005	4.120	114.792	3.793×10^5
14.0 TeV	1.400×10^7	2.512	63.640	88.584	5.901	160.638	4.086×10^5
20.0 TeV	2.000×10^7	2.547	91.487	127.119	8.630	229.786	4.397×10^5
30.0 TeV	3.000×10^7	2.589	137.847	191.235	13.347	345.020	4.749×10^5
40.0 TeV	4.000×10^7	2.619	184.379	255.507	18.176	460.683	4.999×10^5
80.0 TeV	8.000×10^7	2.693	370.802	512.781	38.344	924.621	5.600×10^5
100. TeV	1.000×10^8	2.717	464.178	641.540	48.762	1157.198	5.793×10^5