

$b(E) \times 10^6$  [cm<sup>2</sup>g<sup>-1</sup>] for  
magnesium tetraborate MgB<sub>4</sub>O<sub>7</sub>  
 $\langle Z/A \rangle = 0.49014$

E [GeV]	$b_{\text{brems}}$	$b_{\text{pair}}$	$b_{\text{nucl}}$	$b_{\text{tot}}$
2.	0.3009	0.1342	0.4609	0.8961
5.	0.4080	0.3296	0.4880	1.2256
10.	0.4959	0.4940	0.4739	1.4640
20.	0.5882	0.6726	0.4527	1.7135
50.	0.7128	0.9244	0.4295	2.0668
100.	0.8051	1.1033	0.4182	2.3266
200.	0.8929	1.2653	0.4125	2.5708
500.	0.9958	1.4310	0.4117	2.8386
1000.	1.0613	1.5321	0.4186	3.0120
2000.	1.1155	1.6025	0.4297	3.1477
5000.	1.1690	1.6644	0.4505	3.2840
10000.	1.1972	1.6937	0.4715	3.3624
20000.	1.2169	1.7122	0.4961	3.4252
50000.	1.2335	1.7269	0.5346	3.4950
100000.	1.2413	1.7329	0.5675	3.5418