

$b(E) \times 10^6$  [cm<sup>2</sup>g<sup>-1</sup>] for  
roentgenium (Rg),  $Z = 111$ ,  $A = [282.1691(7)]$

E [GeV]	$b_{\text{brems}}$	$b_{\text{pair}}$	$b_{\text{nucl}}$	$b_{\text{tot}}$
2.	2.5305	0.0098	0.3523	2.8926
5.	3.5256	2.0033	0.3759	5.9047
10.	4.3398	3.5603	0.3686	8.2688
20.	5.1756	4.9600	0.3557	10.4913
50.	6.2665	7.1327	0.3413	13.7405
100.	7.0392	8.5565	0.3345	15.9302
200.	7.7406	9.8092	0.3313	17.8811
500.	8.5216	10.9485	0.3315	19.8016
1000.	8.9876	11.5475	0.3366	20.8718
2000.	9.3470	11.9761	0.3446	21.6677
5000.	9.6772	12.3346	0.3592	22.3710
10000.	9.8391	12.4977	0.3737	22.7105
20000.	9.9456	12.6058	0.3906	22.9419
50000.	10.0405	12.6844	0.4170	23.1419
100000.	10.0716	12.7173	0.4396	23.2284