

$b(E) \times 10^6$  [cm<sup>2</sup>g<sup>-1</sup>] for  
gadolinium (Gd),  $Z = 64$ ,  $A = 157.25(3)$

| E [GeV] | $b_{\text{brems}}$ | $b_{\text{pair}}$ | $b_{\text{nucl}}$ | $b_{\text{tot}}$ |
|---------|--------------------|-------------------|-------------------|------------------|
| 2.      | 1.6070             | 0.5239            | 0.3727            | 2.5036           |
| 5.      | 2.2219             | 1.7534            | 0.3981            | 4.3734           |
| 10.     | 2.7230             | 2.7065            | 0.3902            | 5.8197           |
| 20.     | 3.2371             | 3.6107            | 0.3712            | 7.2190           |
| 50.     | 3.9108             | 4.9735            | 0.3605            | 9.2448           |
| 100.    | 4.3909             | 5.8784            | 0.3530            | 10.6223          |
| 200.    | 4.8304             | 6.6847            | 0.3495            | 11.8646          |
| 500.    | 5.3258             | 7.4271            | 0.3496            | 13.1026          |
| 1000.   | 5.6256             | 7.8222            | 0.3551            | 13.8029          |
| 2000.   | 5.8598             | 8.1080            | 0.3637            | 14.3315          |
| 5000.   | 6.0782             | 8.3474            | 0.3794            | 14.8050          |
| 10000.  | 6.1868             | 8.4583            | 0.3950            | 15.0402          |
| 20000.  | 6.2591             | 8.5306            | 0.4133            | 15.2030          |
| 50000.  | 6.3189             | 8.5848            | 0.4417            | 15.3454          |
| 100000. | 6.3457             | 8.6073            | 0.4659            | 15.4189          |