

$b(E) \times 10^6$  [cm<sup>2</sup>g<sup>-1</sup>] for  
bismuth germanate (BGO) [(Bi<sub>2</sub>O<sub>3</sub>)<sub>2</sub>(GeO<sub>2</sub>)<sub>3</sub>]  
 $\langle Z/A \rangle = 0.42065$

| E [GeV] | $b_{\text{brems}}$ | $b_{\text{pair}}$ | $b_{\text{nucl}}$ | $b_{\text{tot}}$ |
|---------|--------------------|-------------------|-------------------|------------------|
| 2.      | 1.5373             | 0.3677            | 0.3843            | 2.2894           |
| 5.      | 2.1288             | 1.5482            | 0.4097            | 4.0868           |
| 10.     | 2.6116             | 2.4675            | 0.4009            | 5.4801           |
| 20.     | 3.1074             | 3.3303            | 0.3859            | 6.8236           |
| 50.     | 3.7571             | 4.6385            | 0.3691            | 8.7647           |
| 100.    | 4.2197             | 5.5058            | 0.3611            | 10.0866          |
| 200.    | 4.6430             | 6.2766            | 0.3572            | 11.2768          |
| 500.    | 5.1190             | 6.9867            | 0.3572            | 12.4629          |
| 1000.   | 5.4065             | 7.3655            | 0.3628            | 13.1348          |
| 2000.   | 5.6308             | 7.6384            | 0.3717            | 13.6410          |
| 5000.   | 5.8396             | 7.8672            | 0.3882            | 14.0950          |
| 10000.  | 5.9434             | 7.9730            | 0.4046            | 14.3209          |
| 20000.  | 6.0124             | 8.0418            | 0.4236            | 14.4777          |
| 50000.  | 6.0695             | 8.0934            | 0.4534            | 14.6162          |
| 100000. | 6.0949             | 8.1148            | 0.4789            | 14.6887          |