

$b(E) \times 10^6$  [cm<sup>2</sup>g<sup>-1</sup>] for  
barium fluoride (BaF<sub>2</sub>)  
 $\langle Z/A \rangle = 0.42207$

| E [GeV] | $b_{\text{brems}}$ | $b_{\text{pair}}$ | $b_{\text{nucl}}$ | $b_{\text{tot}}$ |
|---------|--------------------|-------------------|-------------------|------------------|
| 2.      | 1.1904             | 0.4473            | 0.3939            | 2.0317           |
| 5.      | 1.6414             | 1.3428            | 0.4200            | 3.4042           |
| 10.     | 2.0088             | 2.0396            | 0.4108            | 4.4591           |
| 20.     | 2.3862             | 2.7132            | 0.3911            | 5.4906           |
| 50.     | 2.8821             | 3.7193            | 0.3776            | 6.9791           |
| 100.    | 3.2367             | 4.3917            | 0.3693            | 7.9978           |
| 200.    | 3.5628             | 4.9937            | 0.3653            | 8.9218           |
| 500.    | 3.9322             | 5.5532            | 0.3653            | 9.8506           |
| 1000.   | 4.1571             | 5.8545            | 0.3710            | 10.3827          |
| 2000.   | 4.3340             | 6.0723            | 0.3803            | 10.7866          |
| 5000.   | 4.5001             | 6.2556            | 0.3972            | 11.1530          |
| 10000.  | 4.5834             | 6.3408            | 0.4141            | 11.3383          |
| 20000.  | 4.6391             | 6.3962            | 0.4339            | 11.4692          |
| 50000.  | 4.6854             | 6.4379            | 0.4647            | 11.5880          |
| 100000. | 4.7062             | 6.4554            | 0.4910            | 11.6527          |