

$b(E) \times 10^6$  [cm<sup>2</sup>g<sup>-1</sup>] for  
solid carbon dioxide (dry ice, CO<sub>2</sub>)  
 $\langle Z/A \rangle = 0.49989$

| E [GeV] | $b_{\text{brems}}$ | $b_{\text{pair}}$ | $b_{\text{nucl}}$ | $b_{\text{tot}}$ |
|---------|--------------------|-------------------|-------------------|------------------|
| 2.      | 0.2937             | 0.1301            | 0.4624            | 0.8862           |
| 5.      | 0.3979             | 0.3196            | 0.4897            | 1.2072           |
| 10.     | 0.4837             | 0.4799            | 0.4755            | 1.4391           |
| 20.     | 0.5737             | 0.6545            | 0.4541            | 1.6823           |
| 50.     | 0.6956             | 0.9004            | 0.4307            | 2.0268           |
| 100.    | 0.7860             | 1.0743            | 0.4194            | 2.2797           |
| 200.    | 0.8719             | 1.2342            | 0.4136            | 2.5197           |
| 500.    | 0.9730             | 1.3973            | 0.4128            | 2.7830           |
| 1000.   | 1.0374             | 1.4969            | 0.4196            | 2.9539           |
| 2000.   | 1.0907             | 1.5664            | 0.4308            | 3.0880           |
| 5000.   | 1.1436             | 1.6276            | 0.4517            | 3.2229           |
| 10000.  | 1.1714             | 1.6565            | 0.4728            | 3.3008           |
| 20000.  | 1.1908             | 1.6748            | 0.4975            | 3.3631           |
| 50000.  | 1.2074             | 1.6893            | 0.5361            | 3.4329           |
| 100000. | 1.2151             | 1.6953            | 0.5693            | 3.4797           |