

$b(E) \times 10^6$  [cm<sup>2</sup>g<sup>-1</sup>] for  
cellulose nitrate [(C<sub>12</sub>H<sub>14</sub>O<sub>4</sub>(ONO<sub>2</sub>)<sub>6</sub>)<sub>n</sub>]  
 $\langle Z/A \rangle = 0.51424$

| E [GeV] | $b_{\text{brems}}$ | $b_{\text{pair}}$ | $b_{\text{nucl}}$ | $b_{\text{tot}}$ |
|---------|--------------------|-------------------|-------------------|------------------|
| 2.      | 0.2836             | 0.1250            | 0.4657            | 0.8742           |
| 5.      | 0.3844             | 0.3077            | 0.4930            | 1.1851           |
| 10.     | 0.4675             | 0.4634            | 0.4785            | 1.4094           |
| 20.     | 0.5549             | 0.6331            | 0.4567            | 1.6447           |
| 50.     | 0.6735             | 0.8719            | 0.4329            | 1.9784           |
| 100.    | 0.7617             | 1.0408            | 0.4214            | 2.2239           |
| 200.    | 0.8455             | 1.1964            | 0.4155            | 2.4574           |
| 500.    | 0.9443             | 1.3556            | 0.4146            | 2.7146           |
| 1000.   | 1.0075             | 1.4531            | 0.4214            | 2.8820           |
| 2000.   | 1.0599             | 1.5213            | 0.4327            | 3.0139           |
| 5000.   | 1.1120             | 1.5814            | 0.4537            | 3.1472           |
| 10000.  | 1.1395             | 1.6099            | 0.4750            | 3.2244           |
| 20000.  | 1.1588             | 1.6278            | 0.4999            | 3.2865           |
| 50000.  | 1.1754             | 1.6420            | 0.5389            | 3.3563           |
| 100000. | 1.1830             | 1.6478            | 0.5724            | 3.4034           |