

$b(E) \times 10^6$ [cm²g⁻¹] for
neptunium (Np), $Z = 93$, $A = [237.04817(2)]$

| E [GeV] | b_{brems} | b_{pair} | b_{nucl} | b_{tot} |
|---------|--------------------|-------------------|-------------------|------------------|
| 2. | 2.1548 | 0.2886 | 0.3582 | 2.8016 |
| 5. | 2.9952 | 1.9755 | 0.3823 | 5.3530 |
| 10. | 3.6821 | 3.2882 | 0.3749 | 7.3452 |
| 20. | 4.3871 | 4.4900 | 0.3617 | 9.2389 |
| 50. | 5.3085 | 6.3357 | 0.3469 | 11.9911 |
| 100. | 5.9623 | 7.5502 | 0.3400 | 13.8525 |
| 200. | 6.5575 | 8.6231 | 0.3367 | 15.5173 |
| 500. | 7.2229 | 9.6023 | 0.3369 | 17.1622 |
| 1000. | 7.6217 | 10.1192 | 0.3421 | 18.0830 |
| 2000. | 7.9306 | 10.4908 | 0.3503 | 18.7717 |
| 5000. | 8.2157 | 10.8008 | 0.3652 | 19.3817 |
| 10000. | 8.3561 | 10.9435 | 0.3801 | 19.6797 |
| 20000. | 8.4488 | 11.0366 | 0.3973 | 19.8827 |
| 50000. | 8.5316 | 11.1055 | 0.4243 | 20.0613 |
| 100000. | 8.5590 | 11.1343 | 0.4473 | 20.1406 |