$b(E) \times 10^6$ [cm$^2$g$^{-1}$] for
yttrium (Y), $Z = 39$, $A$ =88.90584(2)

| E [GeV] | $b_{\rm brems}$ | $b_{\rm pair}$ | $b_{\rm nucl}$ | $b_{\rm tot}$ |
|---|---|---|---|---|
| 2. | 1.1201 | 0.4956 | 0.3936 | 2.0094 |
| 5. | 1.5378 | 1.3177 | 0.4205 | 3.2760 |
| 10. | 1.8772 | 1.9568 | 0.4016 | 4.2356 |
| 20. | 2.2255 | 2.5888 | 0.3905 | 5.2048 |
| 50. | 2.6840 | 3.5240 | 0.3790 | 6.5870 |
| 100. | 3.0126 | 4.1531 | 0.3707 | 7.5363 |
| 200. | 3.3157 | 4.7200 | 0.3667 | 8.4024 |
| 500. | 3.6610 | 5.2495 | 0.3667 | 9.2772 |
| 1000. | 3.8726 | 5.5346 | 0.3724 | 9.7797 |
| 2000. | 4.0399 | 5.7425 | 0.3817 | 10.1641 |
| 5000. | 4.1981 | 5.9176 | 0.3986 | 10.5143 |
| 10000. | 4.2777 | 5.9993 | 0.4155 | 10.6926 |
| 20000. | 4.3312 | 6.0525 | 0.4352 | 10.8189 |
| 50000. | 4.3759 | 6.0928 | 0.4658 | 10.9345 |
| 100000. | 4.3962 | 6.1097 | 0.4920 | 10.9979 |