

- 21** A beam of beta particles constitutes a current of $10.0\ \mu\text{A}$. Given that these beta particles travel at a speed of $2.5 \times 10^7\ \text{m s}^{-1}$, what is the average number of beta particles found in one centimetre length of this beam?

A 2.5×10^4

B 4.0×10^4

C 2.5×10^6

D 4.0×10^6