

38 Which statement about α -particles is correct?

- A** α -particles emitted from a single radioactive isotope have a continuous distribution of energies.
- B** α -particles have less ionising power than β -particles.
- C** The charge of an α -particle is $+1.60 \times 10^{-19}$ C.
- D** The speeds of α -particles can be as high as 1.5×10^7 m s $^{-1}$.

Space for working