

40 Which statement about radioactive decay is correct?

- A** Neutrinos are always emitted during α -decay.
- B** The α -particles emitted from a radioactive sample have a continuous range of kinetic energies.
- C** The β^- particles emitted from a radioactive sample have a continuous range of kinetic energies.
- D** The proton number of a nucleus decreases by four when it undergoes α -decay.

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