

38 Nucleus P decays in two stages to produce nucleus Q.

Which decay sequence will result in the highest number of neutrons in nucleus Q?

- A** an α -particle followed by a β -particle
- B** an α -particle followed by a γ -ray
- C** a β -particle followed by another β -particle
- D** a β -particle followed by a γ -ray

39 A neutral atom has a nucleus given by the symbol $^{133}_{54}\text{Ge}$