

38 A nucleus of francium-221 ($^{221}_{87}\text{Fr}$) decays into a nucleus of bismuth-209 ($^{209}_{83}\text{Bi}$) in several steps.

Which particles could be emitted?

- A** 2 α -particles and 4 β^- particles
- B** 2 α -particles and 4 β^+ particles
- C** 3 α -particles and 2 β^- particles
- D** 3 α -particles and 2 β^+ particles