

39 A radioactive substance contains a number of identical nuclei that emit β -particles.

Which property of these nuclei remains unaltered by the emission?

A charge

B neutron number

C nucleon number

D proton number

40 A uranium-238 nucleus, $^{238}_{92}\text{U}$, undergoes nuclear decay to form uranium-234, $^{234}_{92}\text{U}$.