

29 What is the speed of an α -particle of mass 6.7×10^{-27} kg with a de Broglie wavelength of 2.3×10^{-14} m?

- A 2.2×10^6 ms $^{-1}$
- B 4.3×10^6 ms $^{-1}$
- C 8.7×10^6 ms $^{-1}$
- D 1.7×10^7 ms $^{-1}$

30 Electromagnetic radiation of wavelength 2.8×10^{-7} m is directed onto the zinc emitter of a