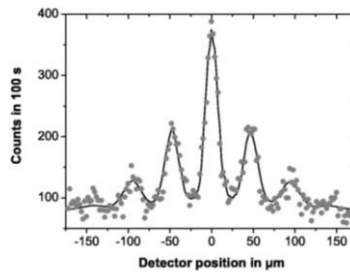


- 29 The figure below shows the experimental results of a double-slit experiment performed using buckminsterfullerenes or buckyballs for short, which are actually spherically arranged molecules of carbon 60 ( $C_{60}$ ).



If neutrons, each of mass 720 times less than a buckyball with the same kinetic energies as the buckyballs are used to do the experiment, the fringe spacing will

- A increase by 720 times
- B increase by  $\sqrt{720}$  times
- C decrease by 720 times
- D decrease by  $\sqrt{720}$  times