

28 An electron has a kinetic energy E and a de Broglie wavelength λ .

The kinetic energy of the electron is increased to $9E$.

What is now the de Broglie wavelength of the electron?

A $\frac{\lambda}{3}$

B $\frac{\lambda}{9}$

C 3λ

D 9λ

29 The nucleus of an isotope of bismuth is represented as $^{212}_{83}\text{Bi}$.