

- 28** X-rays are produced when electrons are accelerated from rest by a potential difference and collide with a metal target.

The minimum wavelength of X-rays produced is λ_0 .

What is the minimum wavelength of X-rays produced if the momentum of the electrons when they collide with the metal target is doubled?

- A** $\frac{\lambda_0}{4}$ **B** $\frac{\lambda_0}{2}$ **C** $2\lambda_0$ **D** $4\lambda_0$