

- 28** A moving electron of mass m and a photon have the same energy E .

The ratio of the wavelengths associated with them, $\frac{\lambda_{electron}}{\lambda_{photon}}$ is

A $\left(\frac{E}{2m}\right)^{\frac{1}{2}}$ **B** $c(2mE)^{\frac{1}{2}}$ **C** $\frac{1}{c}\left(\frac{2m}{E}\right)^{\frac{1}{2}}$ **D** $\frac{1}{c}\left(\frac{E}{2m}\right)^{\frac{1}{2}}$

