

- 29** A proton travelling in a straight line with momentum p has an uncertainty of 0.10% in its kinetic energy.

What is the minimum uncertainty in its position, in terms of p and the Planck constant h ?

A $0.0005 \frac{h}{p}$

B $0.001 \frac{h}{p}$

C $1000 \frac{h}{p}$

D $2000 \frac{h}{p}$