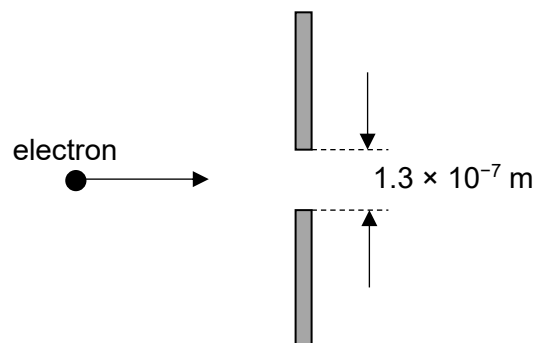


- 28 An electron, with an initial energy of 1.28 eV, passes through a small slit of slit width  $1.3 \times 10^{-7} \text{ m}$ .



What is the direction and minimum uncertainty of the momentum of the electron as it passes through the slit?

	minimum uncertainty	direction
<b>A</b>	$5.1 \times 10^{-27} \text{ N s}$	vertical
<b>B</b>	$5.1 \times 10^{-27} \text{ N s}$	horizontal
<b>C</b>	$6.1 \times 10^{-25} \text{ N s}$	vertical
<b>D</b>	$6.1 \times 10^{-25} \text{ N s}$	horizontal