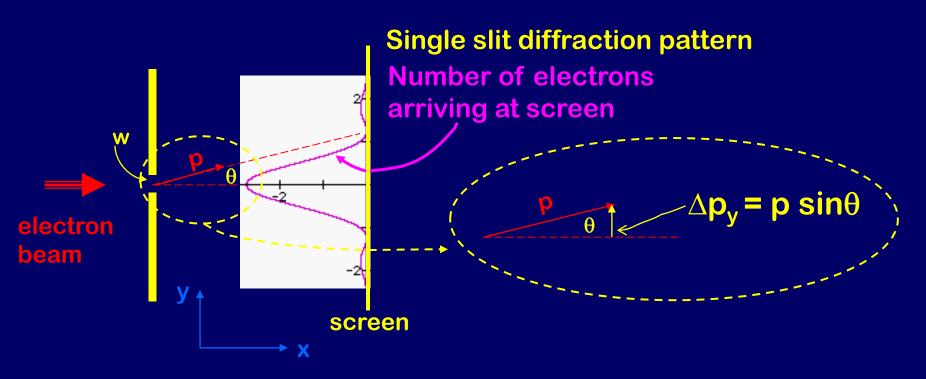


Electron diffraction



Electron beam traveling through slit will diffract



Recall single-slit diffraction 1st minimum:

$$\sin\theta = \lambda / w$$
 $w = \lambda / \sin\theta = \Delta y$

$$\Delta p_{y} \Delta y = p \sin \theta \frac{\lambda}{\sin \theta} = \lambda p = h$$
 Using de Broglie λ