

Last lecture's take-home message from the "falling electron":

CM and QM motion look similar, except the $\Delta x \cdot \Delta p$ part:

Postulate (5)

$$-\partial p/\partial t = \partial H/\partial x \quad \& \quad +\partial x/\partial t = \partial H/\partial p \Rightarrow F = ma \text{ (proved in L1)}$$

$$-\partial \psi^{(i)}/\partial t = \hat{H}/\hbar \psi^{(i)} \quad \& \quad +\partial \psi^{(i)}/\partial t = \hat{H}/\hbar \psi^{(i)} \Rightarrow ? \text{ (wait for L9!)}$$

x-p plot $\hat{=}$ "phase space"

CM:

