



PHYSICS 350

LECTURE 15: QUANTUM MECHANICS

THE SCHRÖDINGER EQUATION

$\psi(x, y, z, t)$

$$i\hbar \frac{\partial \psi}{\partial t} = -\frac{\hbar^2}{2m} \nabla^2 \psi + V \psi$$

Stationary States

$$-\frac{\hbar^2}{2m} \nabla^2 \psi = E \psi$$