

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 435

LECTURE 10

LECTURE 10: QUANTUM MECHANICS

1. THE SCHRÖDINGER EQUATION

The Schrödinger equation is the fundamental equation of quantum mechanics.

It describes the time evolution of the wave function  $\psi$ .

The wave function  $\psi$  is a complex-valued function.

It is defined on a Hilbert space.

The wave function  $\psi$  is normalized.

The wave function  $\psi$  is a solution of the Schrödinger equation.