## Physics 4410 Quantum Mechanics 2

# Lecture 34

## The WKB approximation

November 20, 2020

### **1.** Describe the classical motion of a particle in one dimension.

**2.** What might the quantum wave function look like in this semiclassical regime?

**3.** Organize a systematic expansion of the time-independent Schrödinger equation in  $\hbar$ .

4. What is the zeroth order solution to WKB?

### **5.** What is the first order solution to WKB?