

QUANTUM MECHANICS

IVAN IORSH • AUTUMN 2015 • ITMO UNIVERSITY

Last Revision: September 16, 2015

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Abstract

Quantum Mechanics Lecture Notes.

1 Introduction

1.1 Schrödinger equation

1.2 Heisenberg formalism

1.3 Pauli uncertainty principle

Black holes

Quantum Pencil

2 Analytical Solutions

2.1 Rectangular quantum well

2.2 Harmonic oscillator

2.3 Spherically symmetric potential

3 Quasi-classical approximation

4 Spin

5 Perturbation theory

5.1 Time-independent

5.2 Time-dependent