

# $\Phi @ I$ : *Radiation*

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# Overview

## Introduction

## Revision

Stern Gerlach Experiment

Uncertainty Principle

Delta function Potential

Pure vs Mixed Ensembles

## Tools

## Discussion



# Introduction

- Purpose
- 15-20 minutes for Revision
- Tools relevant to Academia
- Discussion

# Stern Gerlach Experiment

- Sequential Stern-Gerlach Experiments
- Analogy with the Polarization of Light

# Uncertainty Principle

- Proof
- Discussion over time-energy uncertainty vs other uncertainty relations

# Delta function Potential

- Bound state wavefunctions for the delta function potential
- Dirac Comb

# Pure vs Mixed Ensembles

- Definition
- Polarized vs Unpolarized Beams

# Tools

- Zotero
- Mendeley



# Discussion

- Feedback
- Future course of action