
Proposed Senior Seminar
on
Quantum Theory
Mathematical and Structural Foundations

Professor John Boccio

Primary Books

Quantum Theory: Concepts and Methods - Peres
Lectures on Quantum Theory - Isham

Supplementary Books

The Foundations of Quantum Mechanics - Bell
Interpretating the Quantum World - Bub
An Introduction to Hilbert Space and Quantum Logic - Cohen
The Structure and Interpretation of Quantum Mechanics - Hughes
Functional Analysis - Reed and Simon
The Philosophical Foundations of Quantum Mechanics - Reichenbach
Quantum Mechanics - An Empiricist View - Van Fraassen
Mathematical Foundations of Quantum Mechanics - von Neumann

Mathematical Physics + Formal Quantum Theory + Philosophy
