

Physics 002B In Search of Quantum Reality 1st-Year Seminar
Assignment #9 Tuesday November 03, 2009

Seminar Topic: Extend the Formalism; First Look at Reality

Seminar Break: _____

Readings: Boccio ---- 15_Uncertainty(URL in email)
 Herbert --- Chapter 10 Four More Quantum Realities
 Rosenblum - Chapter 10 Wonderful Copenhagen

Seminar will consist of:

- (1) **Presentations by students**
- (2) **Mini-Lectures by instructor to help with understanding of more difficult ideas as they arise during the seminar**

Each student should become an **expert** in their own part of the readings so that their presentation(10 minutes using a Document camera) can be both **informative and interesting**. **Everyone** should do **ALL** the readings so everyone can **assume** that other seminar participants have at least read the material they will be presenting, even though they may not have fully understood it and/or put it into a general context. The **goal** of each seminar is that everyone **fully understand** all then readings for each week, including all of the **implications and ramifications**.

Presentations:

Boccio

12_Uncertainty

Pages 01-07 Uncertainty Principle

Pages 07-09 It Means ?

Pages 09-14 Yet More Uncertainty

Pages 14-16 Mathematical Derivation

Pages 16-17 Meaning of Indeterminacy

Pages 17-19 Time-Energy Derivation

Herbert --- Chapter 10

Rosenblum - Chapter 10

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