

Physics 002B In Search of Quantum Reality 1st-Year Seminar
Assignment #2 Tuesday September 08, 2009

Seminar Topic: Quantum Thoughts

Seminar Break: _____

Readings: Boccio ---- 01_Quantum_Thoughts(URL in email)

Herbert --- Quantum Reality

Chapter 03 pages 41-53 - Quantum Theory Takes Charge

Scarani --- Quantum Physics - A First Encounter

Chapter 02 - Let's Step Back

Chapter 04 - Authority Contradicted

Rosenblum - Quantum Enigma

Chapter 01 - Presenting the Enigma

Chapter 02 - Einstein Called It "Spooky"

Chapter 03 - Visit to Neg Ahne Poc: Quantum Parable

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 ---- 00_Classical_Breakdown

Pages 65-79 _____ and _____

Pages 79-87 _____

Pages 87-90 _____

Boccio ---- 01_Quantum_Thoughts

_____ and _____

Herbert --- Quantum Reality

Chapter 03(pp 41-53) _____

Scarani --- Quantum Physics - A First Encounter

Chapter 02 _____

Chapter 04 _____

Rosenblum - Quantum Enigma

Chapter 01 _____

Chapter 02 _____

Chapter 03 _____