Physics 002B In Search of Quantum Reality 1st-Year Seminar
Assignment #6 Tuesday October 06, 2009

Seminar Topic: Formalism Repeated with Electrons and Photons

Seminar Break: _____
Readings: Boccio ---- 08_Formalism_Experiments(URL in email)
09_More Matrices(URL in email)
Rosenblum - Chapter 08 One-Third of our Economy
Chapter 09 Our Skeleton in the Closet
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

08_Formalism_Experiments

Pages 01-07 Setting Things Up _____
Pages 08-15 Stern-Gerlach Details _____
Pages 15-23 Meanings and States _____
Pages 23-31 M-Z, S-G and Summarizing _____
Pages 31-38 States and Amplitudes _____
Pages 39-45 Bases and Dirac _____&_Professor_
Pages 45-53 Eigen,Expectation,Operators_____&_Professor_
Pages 53-39 Evolution, Reduction & Free Will _____
Pages 62-66 Slits and Phases _____&_Professor_

09_More Matrices _____&_Professor_

Rosenblum - Chapter 08 _____

Rosenblum - Chapter 09 _____