Physics 002B Assignment #2 Quantum Theory in Search of Reality Wednesday January 25 Seminar Topic: Beginning Thoughts about QM Seminar Break: Boccio Readings for presentations: Boccio ---- Chapter_02 Quantum Thoughts Boccio ---- Chapter_03 Sections 3.1 Quantum Ideas Readings for alternative views and other background: Gribbin --- Chapter 03 and Chapter 04 Lindley --- Intermission Seminar will consist of: (1) Presentations by students

(2) Mini-Lectures by instructor to help with the 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(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 the readings for each week, including all of the implications and ramifications.

Presentations:

Boccio --- Chapters 02 and 03 Section 2.1 (pages 75-77) Fishman Up to "spooky action at a distance" Section 2.1(pages 77-78) Umana-Gomez_ Up to which we cannot really do Section 2.1(pages 79-80) Fortuna Up to necessary in order to understand this!!! Section 2.1(pages 81-82) Parikh Up to about other phenomena in the microworld Section 2.1(pages 82-84) Tomlinson Up to occur in the lifetime of the universe Section 2.1(pages 84-86) Corbin Up to universe revealed by classical physics Section 2.1(pages 87-90) Brambila-Olmedo Up to one central feature of quantum theory. Section 2.1.1(pages 90-95) _Montoya_ The Tale of 2 Gloves Section 3.1(pages 97-100) Liu Up to fundamental puzzle of the quantum world Section 3.1(pages 101-103) Eisenberg Up to disrupts(randomizes) the other Section 3.1(pages 103-106) Eisler Up to happening and need to be retrained!!! Section 3.1(pages 106-110) Englehart Up to the quantum world in another way