

Physics 002B

Assignment #10

Quantum Theory in Search of Reality

Wednesday March 28

Seminar Topic: Bell, Einstein and EPR

Seminar Break: Aileen/Daniel

Readings for presentations:

**Boccio ---- Chapter_13 Sections 13.5.6-13.5.10 (pages 503-518)
Chapter_14 Section 14.1 (pages 525-539)**

Presentations:

Sections 13.5.6(pages 503-506) John Bell and Bohm's EPR	_Carolyn_
Section 13.5.7(pages 506-508) Bell's Formula	_Daniel_
Section 13.5.8(pages 508-510) Aspect's Experiment	_Aileen_
Section 13.5.9(pages 510-511) Implications	_Estefania_
Section 13.5.10(pages 511-518) Bell's Theorem _ Alternate Presentation	_Amir_
Section 13.6(pages 518-524) Density Operator	_Professor_
Section 14.1(pages 525-526) The photon source	_Eduardo_
Section 14.1(pages 526-528) The experiment - part 1	_Sam_
Section 14.1(pages 528-529) The experiment - part 2	_Joseph_
Section 14.1(pages 529-533) Digression on Mach-Zehnder	_Katy and Taryn_
Section 14.1(pages 534-539) The experiment - part 3	_Yi-Wei_