

This is the last assignment for the semester. After break we will decide which topics we want to discuss. This will determine which problems after chapter 11 will be due.

1. READING:

Styer, *The Strange World of Quantum Mechanics* Chapters 10 - 15
Feynman, *Lectures on Physics* Chapter 1, on eReserves.

2. QUESTIONS: DUE WEDNESDAY DECEMBER 10, AT MIDNIGHT

- Styer: Questions 8.1, 9.2, 9.3, 9.6, 10.3, 11.1 - 11.5,
- On Dan's website there is a nice puzzle on chapter 10. Follow the link on the 135 website and have a go at the question listed after "page 85"
- Please read the tale at <http://academics.hamilton.edu/physics/smajor/Papers/tale.html> (There's also a link on the website.) I presented this in a talk for "Public Speaking" at Deep Springs College. What is the solution to the trial at the end of the tale? Hints: You have access to the King's box *before* and after his measurement. Assume you can entangle states in any way before the King's measurement.
- Gloria has caught a lake trout 20 inches long. Zipping by in a motor boat, the game warden Esteban measures the fish to be 12 inches. Uh-oh! The minimum legal limit is 16 inches.
 - a. How fast is Esteban traveling?
 - b. Will Gloria have to pay a fine?