

**PHYS420 (Spring 2002)**  
**Riq Parra**

**Extra Credit Homework**  
**(due Monday, May 6<sup>th</sup>, 2002)**

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**Problem (15 points)**

Based on the material covered in this last third of the semester (i.e. Quantum Mechanic Formalism), write a sample problem for the final exam. Include a fully worked out solution.

Important: I will grade this extra credit question based on (1) originality, (2) appropriate level of difficulty and the (3) clarity & (4) correctness of the solution.