Homework: Questions on the Lecture:

DUE: TUESDAY OCTOBER 25, 2005

1. (a) Electromagnetism and gravity are two of the four fundamental forces that are readily noticed in everyday living. The strong force and the weak force are not so evident. Why not?

(b) Give some examples of the weak force in action that affect our daily lives.

2. (a) Name some undiscovered elementary particles that physicists hope to discover in future experiments.

(b) The Standard Model of particle physics fails to provide an explanation of a number of basic questions concerning the fundamental particles and forces. Give two examples.