I ask each of you to present an informal 20 minute talk related to the class. Some suggested topics include:

**Neutron stars:** How structure of neutron stars follows from equation of state of dense matters and general relativity.

**Atmospheric neutrino oscillations:** Cosmic ray source of $\nu$, oscillation evidence, long base line accelerator experiments.

**LSND and Miniboone:** Oscillation signal, why so striking if true, Miniboone program to check LSND.

**Neutrino Phenomenology:** Possible physics implications of atmospheric and solar $\delta m^2$ and mixings.

**Dense matter:** Possible phases of dense matter including meson condensates, quark matter, strange matter, and color superconductors, at the center of neutron stars.

**Due dates**

On November 25 (Monday before T-day) turn in a title and a one or two paragraph description of your project.

Week of Dec. 2-6 talk with me about your project and possible sources.

Talks will be presented two at a time on Dec. 6, 9 or 11. Note: Dec. 11, is last day of class.