

Abstract Submitted  
for the IT05 Meeting of  
USB Dept. of Physics and Astronomy

Sorting Category: 1.0 (E)

**Neutron Stars** MELISSA LOUIE, Stony Brook University

— Neutron Stars were predicted to exist soon after the discovery of the neutron in 1932. Neutron stars are the extremely dense cores left behind after supernova explosions of stars not massive enough to become black holes. Since the neutron star equation of state and the interior structure of a neutron star is still uncertain, they are important objects to study in various fields, not just astronomy and astrophysics. In the 1960's discoveries by Hewish and his collaborators lead to the first observations of neutron stars. Since then, approximately 2000 neutron stars have been identified in our galaxy. This talk will begin with a brief discussion of what is currently known about the formation and properties of neutron stars. The talk will then focus on different types of neutron stars and their properties, famous discoveries, as well as some of the different ways to observe neutron stars.

- Prefer Oral Session  
 Prefer Poster Session

Melissa Louie  
melissa.louie@stonybrook.edu  
Stony Brook University

Date submitted: 30 Oct 2010

Electronic form version 1.4