

Schedule for the DNP/APS Nuclear Astrophysics Workshop: October 29

Morning: Astrophysical Explosions: The Nuclear Connection

8:30 a.m.-10:00 a.m.:

1. Core-Collapse Supernovae (Adam Burrows (UA))
2. Thermonuclear Supernovae: Type Ia's (Stan Woosley (UCSC))
3. Nova Explosions (Jim Truran (Chicago))

Coffee Break (10:00 a.m. - 10:30 a.m.)

10:30 a.m.-12:00 Noon:

1. X-ray Bursters and Explosions on Neutron Stars (Andrew Cumming (UCSC))
2. Gamma-Ray Bursts (Peter Meszaros Penn State))
3. Laboratory Measurements of Astrophysically-Relevant Nuclear Processes (Sam Austin (MSU))

Lunch (12:00 Noon - 1:30 p.m.)

Afternoon: The Origin of the Elements

1:30 p.m. - 3:00 p.m.:

1. Supernova Nucleosynthesis (Alex Heger (LANL))
2. The Production of Elements in Low-Mass Stars (Pierre Demarque (Yale))
3. The r-Process Elements: Physics, Origin, and RIA (Yong Zhong Qian (Minnesota))

Coffee Break (3:00 p.m. - 3:30 p.m.)

3:30 p.m. - 5:00 p.m.:

1. The rp-Process (Michael Wiescher (Notre Dame))
2. Big-Bang Nucleosynthesis (Gary Steigman (OSU))
3. Galactic Chemical Evolution (Richard B.C. Henry (U. Oklahoma))