

XXXVI SLAC Summer Institute, August 4th – August 15th, 2008, Stanford Linear Accelerator Center

COSMIC Accelerators

The 2008 SLAC Summer Institute will focus on the physics of nature's cosmic accelerators, such as black holes, neutron stars and giant shock waves, and the high energy particles they create.

SCHOOL LECTURES

The High Energy Universe
Man-made Accelerators
Fundamental Processes
Acceleration Mechanisms
Acceleration in Pulsars
X-ray Observations of Cosmic Accelerators
Cosmic Ray Propagation
Supernova Remnants
Black Holes
UHE Cosmic Ray Air Showers
Acceleration in Active Galactic Nuclei
High Energy Cosmic Neutrinos
Gamma Ray Observations of Cosmic Accelerators
Acceleration in Large Scale Shocks
Space-based X-ray/Gamma Ray Instruments
Gamma Ray Bursts
Exotic Acceleration Mechanisms
Ground-based VHE Gamma Ray Instruments
Closing Remarks

Jonathan Ormes (University of Denver)
Ron Ruth (SLAC)
Vahé Petrosian (KIPAC, Stanford University)
Luke Drury (Dublin Institute for Advanced Studies)
Roger Romani (KIPAC, Stanford University)
Greg Madejski (SLAC/KIPAC, Stanford University)
Igor Moskalenko (KIPAC, Stanford University)
Stephen Reynolds (North Carolina State University)
Jonathan McKinney (KIPAC, Stanford University)
Angela Olinto (University of Chicago)
Mitch Begelman (JILA, University of Colorado)
David Saltzberg (UCLA)
Olaf Reimer (KIPAC, Stanford University)
Eli Waxman (Weizman Institute)
Josh Grindlay (Harvard University)
Eli Waxman (Weizman Institute)
Mark Trodden (Syracuse University)
Stefan Funk (SLAC/KIPAC, Stanford University)
Simon Swordy (University of Chicago)

SPONSORSHIP

The SLAC Summer Institute is hosted by Stanford University and co-sponsored by the US Department of Energy and the Stanford Linear Accelerator Center.

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