

Supernova Remnants: An Odyssey In Space After Stellar Death

June 6-11, 2016

Chania, Crete, Greece

Background and Scientific Rationale

The meeting "Supernova Remnants: An Odyssey in Space after Stellar death" will explore the exciting recent observational and theoretical progress in the structure, evolution and physics of SNRs. The Institute for Astronomy, Astrophysics, Space Applications & Remote Sensing of the National Observatory of Athens, invites you to the beautiful island of Crete, the home of many well known myths, i.e. of Daedalus and Icarus, Theseus and the Minotaur, the birth of Zeus.

The conference will build upon spectral and imaging observations from radio to gamma-ray wavelengths of SNR blast waves, pulsar wind nebulae and SN ejecta and their interpretation through models and numerical simulations. The goals of the meeting are understanding the evolution of SNRs and their interaction with interstellar gas, elucidating the physical processes that govern shock waves and relativistic plasmas, and inferring characteristics of supernova explosions from SNR observations.

We will focus on narrowing the gap between observations and theories with the help of powerful new instrumentation such as hard X-ray and gamma-ray satellites, large optical telescopes, and sub-mm and low-frequency radio arrays on the one hand, and increasingly detailed and realistic numerical simulations on the other. New understanding of the nature of supernova remnants and processes that occur there offers new insights into the role of SNRs in the structure and evolution of galaxies and the nature of supernova explosions.

Looking forward to seeing you in Crete!

Scientific Topics & Session Chairs

- * Radiation studies from gamma-rays to radio in Galactic and Extragalactic SNRs (D. Green)
- * The search for the binary companions of SN progenitors in SNRs (W. Blair)
- * Pulsar winds nebulae (including Crab flares) (P. Slane)
- * Magnetic fields in SNRs and PWNe (R. Kothes)
- * Collisionless shock waves in SNRs (A. Decourcelle)
- * Jets and Asymmetries in SNe and their Remnants (R. Fesen)
- * SNRs as probes and drivers of galaxy structure (A. Rest)
- * SNe and SNRs cosmic ray acceleration (T. Bell)
- * SN ejecta "abundances, clumpiness" (K. Borkowski)
- * SNe and SNRs with circumstellar interactions (J. Raymond)

Invited Speakers (confirmed)

R. Chevalier (USA - Opening plenary talk), J. Vink (Netherlands " Summary plenary talk), E. Amato (Italy), C. Badenes (USA), G. Dubner (Argentina), P. Ghavamian (USA), W. Kerzendorf (Canada), S-H. Lee (Japan), M. Lemoine-Goumard (France), I. Leonidaki (Greece), L. Lopez (USA), R. McCray (USA), D. Milisavljevic (USA), D. Patnaude (USA), W. Reich (Germany), S. Reynolds (USA), S. Safi-Harb (Canada), N. Soker (Israel), T. Temim (USA), S. Van Dyk (USA), B. Williams (USA)

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