

# The First PANDA Symposium on Products of Astrophysical Outflows

Monday, 30 March 2009 - Friday, 3 April 2009

Lijiang, Yunnan, China

## Scientific Programme

The program includes: invited tutorial talks, scientific themes and evening lectures. If you would like to contribute in any of them, please click "Call for abstracts" in the menu and fill in the "submit a new abstract" . Your contribution will be considered by SOC and Programme Committee members to be presented in this symposium.

## Theme1: Planetary nebulae/stellar mass loss processes

## Theme2: Supernova Remnants, GRB, Magnetars and Pulsar Wind Nebulae

Supernova remnants interact with the circumstellar environment produced by their progenitors and inject both nucleosynthesis products and energy into the interstellar medium. We are still learning how these explosions occur, and how complex is the subsequent evolution of the remnant. In core-collapse explosions that produce a pulsar surrounded by a pulsar-wind nebula, relativistic particles torn off the surface of the pulsar are accelerated in the magnetic field to form the nebula. In this session, we will explore various facets of the explosion of supernovae, their subsequent evolution, and the nature of the particle acceleration both at the shock and in pulsar wind nebulae. A mixture of longer review talks and shorter feature talks, plus contributed talks from meeting participants, will be presented to highlight interesting recent results and advances in these topics.

## Theme3: Wind-driven bubbles/galactic fountains, AGNs

This session is dedicated to recent advances in understanding large scale bubbles, including their energy sources and their effects on the intergalactic medium. Two review talks will survey the state of the art in observations and simulations of these objects, both concluding with a list of the most intriguing unresolved problems in the field. Four talks will highlight specific recent advances that have significantly altered or validated previous ideas about the topic. There will be eight contributed talks to allow participants to communicate their most recent work. Finally, there will be a summary talk at the end of the session that will anticipate how the field might benefit from future advances in simulation and observational capabilities.

## Invited Tutorial Talks

### Lectuer

Ralph Wijers: What you should avoid in your oral presentations