

PROGRAMME OF THE CONFERENCE "PLANETARY NEBULAE AS ASTRONOMICAL TOOLS"

28 June - 2 July 2005

i: invited reviews 35 min + 5 min discussion
o: oral contribution 15 min + 5 min discussion
p: posters 2 min oral advertisement
d: discussion 20 min introduction + 40 min discussion

Tuesday June 28

- 09:00 Stasinska Grazyna o Introduction
09:20 Fierro Julieta i Planetary Nebulae as a tool to teach and promote astronomy
10:00 Ercolano Barbara i New advances in photoionization codes : how and what for?
10:40 oral presentation of posters from session 1
Bastin Rob p Dielectronic recombination in photoionized plasmas
Bastin Rob p Intermediate coupling model of weak recombination lines and its application to photoionized plasma
Benítez de la Mora Georgina p Analyzing the physical structure of the Planetary Nebula NGC 6445
Havrylova Nataliya p New Ionization Correction Factors for Chemical Composition Determination of Galactic Planetary Nebulae and HII Regions
Rokach Oleg p DIOGEN – a new computing tool for the diagnostics and chemical analysis of nebular plasma.
Roth Martin M. p Integral field spectroscopy of the halo PN NGC 4361
10:55 coffee and poster viewing session 1
11:35 Rozyczka Michal i Problems in gaseous hydrodynamics
12:15 Balick Bruce o The Astrophysical Challenges of the Last Decade of Observations of PNe
12:35 Exter Katrina o Spatially resolved studies of PNe
12:55 Morisset Christophe o A fast pseudo-3D photoionization code for aspherical planetary nebulae and HII regions
13:15 Goncalves Denise R. o Do we really know how to derive the basic PNe's parameters?
13:35 lunch
15:35 Bernard-Salas Jeronimo o Mid-infrared spectroscopy of Planetary Nebulae in the Magellanic Clouds
15:55 Casassus Simon o A new component in the radio continua of PNe
16:15 Frank Adam o Planetary Nebulae as Laboratories for Astrophysical MHD
16:35 Tsamis Yiannis o Elemental abundances in PNe and HII regions: lessons in parallel
16:55 Cuisinier François o Wavelet Transform and Micro-Structures in Planetary Nebulae
17:15 Huggins Patrick o Signatures of the Magnetic Field Structure in Planetary Nebulae
17:35 oral presentation of posters from session 2
Ayala Sandra p The planetary nebula NGC2371: Mapping its chemical and kinematic structure.
Mékarnia Djamel p 3D structure of planetary nebulae
Miranda Luis F. p Collimated (fast) winds shaping the planetary nebulae Sh2-71 and NGC6765
Otsuka Masaaki p Highly Resolved Spectroscopic Study of the PNe with HIDES
Rauch Thomas p On the Velocity Field and the Three-dimensional Structure of the Galactic Soccer Ball Abell 43
Rokach Oleg p The 2.5-dimensional photoionization code PAN for modelling of axially symmetric nebulae
17:50 drinks and poster viewing session 2
18:30 Soker Noam d Can we ignore magnetic field in studies of PN formation, shaping and interaction with the ISM?

Wednesday June 29

- 09:00 Charbonnel Corinne i Post AGB and PN : The indispensable constraints for nucleosynthesis predictions
- 09:40 Pauldrach Adalbert. i Radiation driven atmospheres of O-type stars. Synthetic UV-spectra of consistent atmospheric models as a spectroscopic
- 10:20 Decressin Thibaut o The fate of super-AGB stars at low metallicity
- 17:35 oral presentation of posters from session 3
- Casassus Simon p Hyperfine splitting of [Al VI] λ 3.66 μ m and the Al isotopic ratio on NGC 6302
- Engels Dieter p The departure from the AGB
- Hamann Wolf-Rainer p Hydrogen-deficient Central Stars revisited
- Hoffmann Tadziu p Wind models for O-type stars
- Monreal Ibero Ana p Searching and characterizing the Faint Haloes of Planetary Nebulae: A Study Case for Integral Field Spectroscopy
- Sabin Laurence p The circumstellar shells from the AGB to the PNe phase
- 10:55 coffee and poster viewing session 3
- 11:35 Werner Klaus o Light and heavy metal abundances in hot central stars
- 11:55 Suárez Olga o Stellar evolution in the post-AGB stage
- 12:15 Garcia-Hernandez Domingo An o Why are massive O-rich AGB stars in our Galaxy not S-stars?
- 12:35 Jimenez-Esteban Francisco o Stellar evolution and the 'O-rich AGB sequence'
- 12:55 Eyer mann Sarah o The nature and origin of molecular knots in planetary nebulae
- 13:15 Torres-Peimbert Silvia o PNe as tests of the kinematics of dense circumstellar material
- 13:35 lunch
- 15:35 Guerrero Martin A. o X-ray and UV Observations of Hot Gas in Planetary Nebulae
- 15:55 Bond Howard o Spectroscopic Binaries in Planetary Nebulae
- 16:15 De Marco Orsola o Common envelope evolution through Planetary Nebula eyes
- 16:35 Napiwotzki Ralf o The most metal-poor PN and its binary central star
- 16:55 Clayton Geoffrey o The Shadow Echoes of UW Cen
- 17:15 Zijlstra Albert o The reheating of Sakurai's Object
- 17:45 oral presentation of posters from session 4
- Frankowski Adam p Binary CSPN and PNe abundances
- Gesicki Krzysztof p Planetary nebulae as a tool for study stellar evolution
- Hsia chih-hao p The Close Binary Central Star of the Young Planetary Nebula HB 12
- Kostyakova Elena p The Long-term Photometric and Spectral Study of Planetary Nebula Variability
- Mitchell Deborah p The structures and kinematics of planetary nebulae with close-binary cores
- Schmidt Mirek p Spectroscopic Masses of Sample of Post-AGB stars
- Steffen Mathias p Modelling X-ray emission from planetary nebulae
- 17:50 drinks and poster viewing session 4
- 18:30 Kwok Sun d How well do we understand the evolution from an AGB star to a PN?

Thursday June 30

- 09:00 Ciardullo Robin i The extragalactic distance scale
- 09:40 Marigo Paola i Stellar population synthesis including planetary nebulae
- 10:20 Schoenberner Detlef o On the reliability of planetary nebulae as extragalactic probes
- 17:45 oral presentation of posters from session 5
- Ciardullo Robin p The Progenitors of the Brightest Planetary Nebulae

Reid	W	p A new population of Planetary Nebulae in the Large Magellanic Cloud
Richer	Michael	p The expansion velocities of extragalactic planetary nebulae
Shiratori	Yutaka	p [OIII] observations of six planetary nebulae

10:55 coffee and poster viewing session 5

11:35 Kniazev	Alexei	o Search for PNe in Nearby Galaxies with SDSS imaging data
11:55 Vilchez	Jose M	o M33 PNs revisited: checking spectroscopic & chemical results
12:15 Leisy	Pierre	o New PNe abundances in several LG galaxies
12:35 Corradi	Romano L.Mo	Detection of new PNe by IPHAS, an H-alpha survey of the Northern Galactic plane
12:55 Parker	Quentin	o The Macquarie/AAO/Strasbourg H-alpha Planetary nebula project (MASH)

13:15 lunch

Friday July 1

10:00 Dwek Eli i The Cycle of Cosmic Dust

17:35 oral presentation of posters from session 6

Frew	David	p Planetary Nebulae in the Solar Neighbourhood
Kasimova	Ekaterina	p Observational consequences of dust in PNs
Kwok	Sun	p SMA observations of AGB stars, PPN, and PN
Lagadec	Eric	p Infrared high spatial resolution study of the planetary nebulae Hen2-113 and CPD-568032
Matsuura	Mikako	p Dark lane in the bipolar nebula NGC 6302
Matsuura	Mikako	p The symmetric dust shell and the central star of the bipolar nebula NGC 6537

10:55 coffee and poster viewing session 6

11:35 Szczerba	Ryszard	o Evolution of PAH features from proto- to planetary nebulae.
11:55 Hasegawa	Tatsuhiko	o Planetary Nebulae as Testgrounds of Theories of Interstellar Molecular Chemistry
12:15 Prantzos	Nikos	i The role of single stars of low and intermediate mass in the chemical evolution of galaxies
12:55 Matteucci	Francesca	i SNe Ia and Novae: their roles in galactic chemical evolution

13:35 lunch

15:35 Garcia-Lario	Pedro	o The use of PNe precursors in the study of Diffuse Interstellar Bands
15:55 Pena	Miriam	o Using planetary nebulae to analyze the abundance gradient in the Galaxy
16:15 Maciel	Walter	o Planetary Nebulae as a chemical evolution tool: abundance gradients
16:35 Gorny	Slawomir K.	o Abundances of two planetary nebulae populations towards the Galactic center.
16:55 Costa	Roberto	p Planetary nebulae and the chemical evolution of the galactic bulge
17:15 Chiappini	Cristina	o Planetary Nebulae as tools to constrain stellar nucleosynthesis and the formation of the Milky Way

17:35 oral presentation of posters from session 7

Idiart	Thais	p Planetary Nebulae and the chemical evolution of SMC
Mampaso	Antonio	p New galactic Planetary Nebulae from the IPHAS Survey
Santander-García	Miguel	p Expansion parallax of symbiotic nebulae

17:50 drinks and poster viewing session 7

18:30 Walsh Jeremy d Galactic versus extragalactic PNe: two different views of the same phenomenon ?

Saturday July 2

09:00 Arnaboldi Magda i Stellar populations in the intergalactic space

09:40 Castro-Rodríguez	Nieves D.	o Diffuse light in galaxy groups
10:20 Gerhard	Ortwin	o Detection of Intracluster Planetary Nebulae in the Coma Cluster
10:40 Sambhus	Niranjan	o Kinematic evidence for different Planetary Nebulae Populations in the elliptical galaxy NGC 4697

11:00 oral presentation of posters from session 8

Douglas	Nigel	p	Planetary Nebulae and VLBI
Melekh	Bohdan	p	Determination of Chemical Composition and Physical Parameters of Planetary Nebulae and HII Regions in BCGDs
Teodorescu	Ana Maria	p	Detection, photometry, and slitless radial velocities of planetary nebulae in NGC 1344

11:15 coffee and poster viewing session 8

11:55 Kuijken Konrad i The Dark Matter Problem

12:35 Athanassoula Lia i The buildup and dynamical evolution of galaxies

13:15 Herrmann Kimberly o Planetary Nebula Studies of Face-On Spiral Galaxies: Is the Disk Mass-to-Light Ratio Constant?

13:35 lunch

15:55 Mamon Gary o Dynamical modelling of PN motions around elliptical galaxies: is there a lack of dark matter?

16:15 Roth Martin M. o Studying Planetary Nebulae with 3D Spectroscopy

16:35 Ford Holland i Summary of Meeting Highlights