

SCIENTIFIC PROGRAMME

Sunday 9 October

15:00 – 20:00 *Registration*

18:30 – 20:30 *Welcome Cocktail*

Monday 10 October

08:00 – 09:00 *Registration*

09:00 – 09:15 *Welcome address*

Session 1: A census of the PostAGB stars and PN populations

Chair: Arturo Manchado

09:15 – 09:45 *Historical overview* **Silvia TorresPeimbert [25+5]**

09:45 – 10:15 *Challenges faced by PNe surveys* **David Frew [25+5]**

10:15 – 10:45 *PostAGB nebulae studies* **Eric Lagadec [25+5]**

10:45 – 11:15 *Coffee break & poster viewing*

11:15 – 11:35 *Infrared studies of postAGB stars and PNe* **KyungWon Suh [15+5]**

11:35 – 11:55 *PNe in the UWISH2 H₂ northern Galactic plane survey* **T.M. Gledhill [15+5]**

11:55 – 12:15 *Planetary nebulae science with 10m telescopes: the GTC perspective* **Romano L. M. Corradi [15+5]**

12:15 – 12:35 *The Hong Kong AAO Strasbourg H-alpha planetary nebulae research platform: HASH* **Quentin Parker [15+5]**

12:35 – 14:00 *Lunch break & poster viewing*

Session 2: PNe as a versatile laboratory I

Chair: Michael Barlow

14:00 – 14:30 *Photoionization models of planetary nebulae* **Christophe Morisset [25+5]**

14:30 – 15:00 *Gaseous abundances in PNe: what have we learned in the past five years?* **Gloria Delgado Inglada [25+5]**

15:00 – 15:20 *The kinematical behavior of ORLs and CELs in planetary nebulae* **M. Pena [15+5]**

15:20 – 15:40 *Imaging the elusive H-poor gas in high ADF planetary nebulae* **Jorge García-Rojas [15+5]**

15:40 – 16:00 *Close binary central stars and the abundance discrepancy - new extreme objects* **Roger Wesson [15+5]**

16:00 – 16:30 *Coffee break & poster viewing*

16:30 – 17:00 *Atomic data and neutron-capture element abundances in planetary nebulae* **Nick Sterling [25+5]**

17:00 – 17:20 *Abundances of iron-group elements in planetary nebulae and consequences for chemical enrichment and evolution* **Harriet Dinerstein [15+5]**

17:20 – 17:50 *Stellar yields and abundances* **Maria Lugaro [25+5]**

17:50 – 18:10 *i-process nucleosynthesis in AGB stars* **Carolyn Doherty [15+5]**

18:10 – 18:30 *Understanding Galactic planetary nebulae with precise/reliable*

nebular abundances **D. A. García-Hernández [15+5]**

Tuesday 11 October

09:00 – 09:20 *3He abundances in planetary nebulae* **L. Guzman-Ramirez [15+5]**

09:20 – 09:40 *X-ray studies of PNe* **Rodolfo(Rudy) Montez [15+5]**

09:40 – 10:00 *Analysis of the X-ray spectrum of the hot bubble of BD+30° 3639* **D. Schoenberger [15+5]**

10:00 – 10:20 *Revealing the location of the mixing layer in a hot bubble* **Martín A. Guerrero [15+5]**

10:20 – 10:50 *Coffee break & poster viewing*

Session 3: PNe as a versatile laboratory II

Chair: Alberto Lopez

10:50 – 11:20 *Dust in PNe* **Greg Sloan [25+5]**

11:20 – 11:50 *Herschel studies* **Griet van de Steene [25+5]**

11:50 – 12:10 *Magnetic Fields from the Post-AGB to Planetary Nebula Phase*
Laurence Sabin [15+5]

12:10 – 14:00 *Lunch break & poster viewing*

14:00 – 14:30 *Molecular studies of PNe* **Yong Zhang [25+5]**

14:30 – 14:50 *Planetary nebulae as the birth sites of cosmic fullerenes* **J. Cami [15+5]**

14:50 – 15:10 *The formation of fullerenes in planetary nebulae as seen by GTC/Canaricam* **J. Jairo Díaz-Luis [15+5]**

15:10 – 15:30 *Subarcsecond molecular hydrogen imaging of NGC 2346 with GSAOI/GeMS* **Arturo Manchado [15+5]**

15:30 – 16:50 *Group photo, Coffee break & poster viewing*

Session 4: From the AGB to the WD stellar phases

Chair: Miriam Pena

16:50 – 17:20 *The Initial-final mass relation* **Jeffrey Cummings [25+5]**

17:20 – 17:40 *Modelling dust production in AGB stars* **Flavia Dell'Agli [15+5]**

Wednesday 12 October

09:00 – 09:20 *Central stars of PNe* **David Jones [15+5]**

09:20 – 09:40 *[WN] central stars of planetary nebulae* **H. Todt [15+5]**

09:40 – 10:00 *The rapid evolution of the central star of the Stingray Nebula - latest news from the HST* **N. Reindl [15+5]**

10:00 – 10:20 *New models for the evolution of central stars of planetary nebulae: Faster and Brighter* **Marcelo M. Miller Bertolami [15+5]**

10:20 – 10:40 *The star formation history of the Galactic bulge* **Albert Zijlstra [15+5]**

10:40 – 11:10 *Coffee break & poster viewing*

11:10 – 11:30 *The kinematics of the nebular shells around low mass progenitors of*

PNe with low metallicity **M. Pereyra [15+5]**

11:30 – 11:50 *Planet destruction and the shaping of planetary nebulae* **Laura Boyle [15+5]**

11:50 – 13:00 *Lunch break*

13:15 *Departure for excursion*

Thursday 13 October

Session 5: The connection between binary evolution and PN phenomena

Chair: Roberto Mendez

09:00 – 09:30 *Circumstellar Spirals/Shells/Arcs: the messages from binary stars*

Hyosun Kim [25+5]

09:30 – 10:00 *Common envelope evolution* **Jason Nordhaus [25+5]**

10:00 – 10:30 *Coffee break & poster viewing*

10:30 – 10:50 *Planetary nebulae from common envelope interactions: irrelevant or fundamental?* **Orsola De Marco [15+5]**

10:50 – 11:10 *Single, rotating stars and the influence of companions on PNe shaping* **Eva Villaver [15+5]**

11:10 – 11:30 *Where are the binaries in proto-planetary nebulae? Results of a long-term radial velocity study* **B.J. Hrivnak [15+5]**

11:30 – 11:50 *The newly discovered dusty post-RGB binaries and their implications on stellar evolution* **D. Kamath [15+5]**

11:50 – 14:00 *Lunch break & poster viewing*

14:00 – 14:20 *Shaping 'messy' PNe by triple stellar systems* **Muhammad Akashi [15+5]**

14:20 – 14:40 *Jet production in binary post-AGB stars with circumbinary Keplerian discs* **Hans Van Winckel [15+5]**

14:40 – 15:40 *Discussion session 1: Modelling and data* **Moderators: De Marco, Frank, Lugaro, Soker**

15:40 – 16:40 *Coffee break & poster viewing*

Session 6: PNe in nearby galaxies and chemical evolution

Chair: Romano Corradi

16:40 – 17:10 *Abundances and gradients in nearby galaxies* **Fabio Bresolin [25+5]**

17:10 – 17:40 *Chemical evolution of galaxies* **Mercedes Molla [25+5]**

17:40 – 18:00 *XSHOOTER spectroscopy of the enigmatic planetary nebula Lin49 in the Small Magellanic Cloud* **Masaaki Otsuka [15+5]**

19:00 – 21:30 *Conference dinner*

Friday 14 October

09:00 – 09:20 *Abundances and gradients in M31* **Xuan Fang [15+5]**

09:20 – 09:40 *The origins of planetary nebulae in the inner and outer disks of M31* **Bruce Balick [15+5]**

Session 7: PNe outside of the local group

Chair: Letizia Stanghellini

09:40 – 10:10 *PNe as dynamical probes of Galaxies* **Lodovico Coccato [25+5]**

10:10 – 10:30 *The extended planetary nebulae spectrograph (PN.S) early-type galaxy survey - velocity fields at large radii from planetary nebulae* **C. Pulsoni [15+5]**

10:30 – 11:00 *Coffee break & poster viewing*

11:00 – 11:20 *Kinematics of planetary nebulae in NGC 4278* **Magda Arnaboldi [15+5]**

11:20 – 11:40 *Resolving the Disk-Halo degeneracy using planetary nebulae* **S. Aniyani [15+5]**

11:40 – 12:00 *The VIRGO PN population and the mass assembly in M87* **Alessia Longobardi [15+5]**

12:00 – 12:20 *The halo of M49 and its environment as traced by planetary nebulae* **J. Hartke [15+5]**

12:20 – 14:00 *Lunch break & poster viewing*

14:00 – 14:20 *The PN luminosity function* **Roberto Mendez [15+5]**

Session 8: First results from Gaia and looking to the future

Chair: Albert Zijlstra

14:20 – 14:40 *Gaia and the planetary nebulae* **Minia Manteiga [15+5]**

14:40 – 15:00 *Galactic planetary nebulae as absolute probes: The view from Gaia* **Letizia Stanghellini [15+5]**

15:00 – 15:20 *Gaia: mapping the dynamics and morphologies of Galactic planetary nebulae: first results from Gaia-Data release 1* **Nicholas Walton [15+5]**

15:20 – 15:50 *Coffee break & poster viewing*

15:50 – 16:50 *Discussion session 2: planetary nebulae and forefront instrumentation* **Moderators: Manchado, Arnaboldi, Jacoby, Meixner**

16:50 – 17:20 *Final conference summary* **Sun Kwok**