

Astronomdagarna 2015

Uppsala University, Ångström Laboratory, Polhemsalen
22–24 October 2015

(Programme as of 2015-10-16)

[I] Invited talk; [C] Contributed talk; [A] Astronomy and Society

Thursday, 22 October

12:00–14:00 Registration, outside Polhemsalen
14:00–14.10 Welcome: *Paul Barklem* (Uppsala)

Session 1

Chair: Erik Zackrisson

14:10–14:30 [I] The young star clusters perspective of star formation: *Angela Adamo* (Stockholm)
14:30–14:50 [C] An AGN-blown Nuclear Bubble in a Face-on Analogue to Our Own Milky Way: *Emily Freeland* (Stockholm)
14:50–15:10 [C] The destruction of the circumstellar ring of SN 1987A: *Katia Migotto* (Stockholm)
15:10–15:30 [C] Finding the Missing Metals – Circumgalactic O VI seen in Emission: *Matthew Hayes* (Stockholm)
15:30–15:50 [A] [C] Teaching and Learning in Astronomy Education – a Spiral Approach to Reading the Sky: *Urban Eriksson* (Kristianstad)
15:50–16:20 Tea and coffee break with **poster** viewing

Session 2

Chair: Dan Kiselman

16:20–16:40 [I] Observations and simulations of the solar chromosphere: *Jorrit Leenaarts* (Stockholm)
16:40–17:00 [C] Coronal magnetic-field measurements based on accidental degeneracy of quantum states: *Jon Grumer* (Lund)
17:00–17:20 [C] Exploring the diagnostic value of Helium I D3 in the solar chromosphere: *Tine Libbrecht* (Stockholm)
17:20–18:00 [I] Swedish Astronomy in 2025: *Göran Östlin* (Stockholm)
18:00–18:30 Snacks for participants, outside Polhemsalen
18:30–19:30 Nordenmark Lecture (open to the public), in Siegbahnsalen:
En radioastronomers perspektiv inklusive rymdvärdret och astrohippofysik,
Maria Sundin, Göteborgs universitet

Friday, 23 October

8:30–9:00 Tea and coffee, outside Polhemsalen

Session 3

Chair: Nikolai Piskunov

- 9:00–9:20 [I] Studies of circumstellar disks and planets with SPHERE: *Markus Janson* (Stockholm)
- 9:20–9:40 [I] Planet formation via pebble accretion: *Bertram Bitsch* (Lund)
- 9:40–10:00 [C] Hot Jupiters and Super-Earths: *Alexander J. Mustill* (Lund)
- 10:00–10:10 Short break
- 10:10–10:30 [C] Characterizing the physical structure on small scales in young solar analogs: *Magnus V. Persson* (Leiden)
- 10:30–10:50 [C] Magnetic fields of young solar-like stars: *Lisa Rosén* (Uppsala)
- 10:50–11:10 [C] Magnetic Fields, Starspots, and the Interior Structure of Young Low-Mass Stars: *Gregory Feiden* (Uppsala)
- 11:10–12:35 Lunch at Rullan
-

Session 4

Chair: Dan Kiselman

- 12:35–12:50 [I] Astronomy developments in South Africa: *Sergio Colafrancesco* (Johannesburg)
- 12:50–13:10 [I] Human Capacity Development and Outreach in South Africa: *Kurt van der Heyden* (Cape Town)
- 13:10–13:30 [I] DESIREE – A unique instrument to study positive/negative ion interactions: *Henning Schmidt* (Stockholm)
- 13:30–13:50 [I] Laboratory Astrophysics for near-infrared Spectroscopy: *Henrik Hartman* (Malmö and Lund)
- 13:50–14:10 [C] Laboratory study of neutral scandium for infrared spectroscopy: *Asli Pehlivan* (Malmö and Lund)
- 14:10–14:50 Coffee and tea break with **poster** viewing
-

Session 5

Chair: Eva Wirström

- 14:50–15:00 The Swedish Astronomical Society: *Jesper Sollerman* (Stockholm)
- 15:00–15:20 [I] Titanium dioxide around the red supergiant VY CMa: *Elvire De Beck* (Chalmers – OSO)
- 15:20–15:40 [C] ALMA observations of the not-so-detached shell around the AGB star R Scl: *Matthias Maercker* (Chalmers – OSO)
- 15:40–16:00 [C] Sulphur molecules in the AGB star R Doradus: *Taïssa Danilovich* (Chalmers)
- 16:00–16:40 Tea and coffee break with **poster** viewing

Session 6Chair: Gabriella Stenberg Wieser

- 16:40–17:00 [I] Rosetta observations of the near-nucleus coma of comet 67P: *Anders Eriksson* (IRF Uppsala)
- 17:00–17:20 [I] Highlights of the environmental discoveries on Mars from Curiosity Rover: *Javier Martin-Torres* (Luleå)
- 17:20–17:40 [C] Was paleo Venus the first habitable world of our solar system?: *Michael Way* (NASA/GISS & Uppsala)
- 17:40–18:00 [A] [I] Stories about the stars: astronomy and the Swedish media: *Anna Davour* (Populär Astronomi)
- 19:00 Conference dinner at Stockholm's Nation

Saturday, 24 October

Session 7Chair: Andreas Korn

- 9:00–9:20 [I] The accuracy of stellar metallicities: *Karin Lind* (Uppsala)
- 9:20–9:40 [C] Radiation-hydrodynamics simulations of AGB and RSG stars with CO5BOLD: *Bernd Freytag* (Uppsala)
- 9:40–10:00 [C] Stellar Spectroscopy during Exoplanet Transits: Dissecting fine structure across stellar surfaces: *Dainis Dravins* (Lund)
- 10:00–10:20 [A] [I] The artificial Skyglow above Stockholm and Why we care about it: *Johannes Puschnig* (Stockholm)
- 10:20–10:50 Coffee and tea break with **poster** viewing

Session 8Chair: Ulrike Heiter

- 10:50–11:10 [I] Recent results from the International LOFAR telescope: *Eskil Varenius* (Chalmers – OSO)
- 11:10–11:30 [C] Chemical Evolution of the Galactic Centre: *Nils Ryde* (Lund)
- 11:30–11:50 [C] Unveiling the diversity of the Milky Way stellar clusters: *Sami Dib* (Copenhagen)
- 11:50–12:10 [C] Extragalactic accelerators with HESS, CTA and ALTO: *Yvonne Becherini* (Linnéuniversitetet)
- 12:10–12:30 [A] [C] Cosmic rays – making the invisible visible: *Tanja Nymark* (Vetenskapens Hus, Stockholm)
- 12:30 End of meeting
- 14:00–15:30 Guided tour of Uppsala