

Friday August 31, 2012

Super-Earths and their Interior Dynamics (Chair: *Ji-Lin Zhou*)

8:30 – 9:00 **Habitable planets: Interior Dynamics and Long-Term Evolution (Invited)**
Paul Tackley (Institute of Geophysics, ETH Zurich)

9:00 – 9:15 **Mass-Radius Relationships of Rocky Exoplanets**
Frank Sohl (DLR Berlin)

9:15 – 9:30 **Consequences of the Tidal Disruption of Giant Planets: On the Connections With the Hot Super-Earths**
Shang-Fei Liu (Department of Astronomy, Peking University)

9:30 – 9:45 **The Anelastic Equilibrium Tide in Exoplanetary Systems**
Francoise Remus (Observatoire de Paris)

9:45 – 10:00 **Detecting Molecules and Magnetic Fields on Exoplanets**
Svetlana Berdyugina (KIS, Freiburg – UH/NAI, Hawaii)

10:00 – 10:30 **Break**

Planetesimal Formation and Disk-Planet Interaction (Chair: *Svetlana Berdyugina*)

10:30 – 10:45 **From Dust to Planetesimals in the Habitable Zone**
Hubert Klahr (Max Planck Institute for Astronomy)

10:45 – 11:00 **Planetesimal Formation in Zonal Flows Arising in Magneto Rotationally Unstable Protoplanetary Disks**
Karsten Dittrich (Max Planck Institute for Astronomy)

11:00 – 11:15 **Laminar Accretion in the Habitable Zone of Protoplanetary Disks**
Xuening Bai (Princeton University)

11:15 – 11:30 **Type I Planet Migration in Weakly Magnetised Laminar Discs**
Jérôme Guilet (DAMTP, University of Cambridge)

11:30 – 11:45 **Accretion and Planet Formation in the dead Zones of Accretion Disks**
Wladimir Lyra (Jet Propulsion Laboratory)

11:45 – 12:00 **Modeling Disc-Planet Interactions**
Jorge Cuadra (PUC, Chile)

12:00 – 12:15 **Observational Constraints on Disk Evolution and the Initial Steps Towards Planet Formation**
Leonardo Testi (ESO)

12:15 – 12:30 **Planetesimal Capture by an Evolving Giant Gaseous Protoplanet**
Morri Podolak s (Tel Aviv University)

12:30 – 14:00 **Lunch Break**

Surveys and Detection Programs I (Chair: *Nader Haghighipour*)

14:00 – 14:15 **The Impact of Herschel on the Debris Disc-Exoplanet Connection**
Jonathan Marshall (Universidad Autonoma de Madrid)

14:15 – 14:30 **The WFCAM Transit Survey: Search For Planets Around Cool Stars**
Sipőcz Brigitta (University of Hertfordshire)

14:30 – 14:45 **Astrometric Detection of Earth-like Planets with Moderate Space Telescope**
Michael Shao (JPL)

14:45 – 15:00 **Exoplanets Search and Characterization with the SOPHIE Spectrograph at OHP**
Guillaume Hébrard (IAP/OHP)

15:00 – 15:15 **Homogeneous Studies of Transiting Extrasolar Planets: Current Status**
John Southworth (Keele University)

15:15 – 15:30 **TFRM-PSES: Filling a Niche in Transit Surveys of Super-Earths Around M Dwarfs**
Octavi Fors (Universitat de Barcelona)

15:30 – 16:00 **Break**

Surveys and Detection Programs II (Chair: *Nader Haghighipour*)

16:00 – 16:15 **The Arecibo Search for Radio Flares From Ultracool Dwarfs**
Alexander Wolszczan (Penn State University)

16:15 – 16:30 **SPICES: A Mission Concept to Characterize Long-Period Planets From Giants to Super-Earths**
Anthony Boccaletti (Paris Observatory)

16:30 – 16:45 **Exoplanet Occultation Spectrophotometry with SOFIA**
Daniel Angerhausen (Hamburg Observatory)

16:45 – 17:00 **Characterising Super Earths with the ECHO Space Mission Concept**
Marcell Tessenyi (University College London)

- 17:00 – 17:15 **Do Have Nanosatellites a Role in Detecting Exoplanets?**
Werner Weiss (University of Vienna)
- 17:15 – 17:30 **The Planetary Astrobiological eXplorer (PAX) Project**
Alain Leger (PAXTeam, IAS)
- 17:30 – 17:45 **Electric Field Break-Down in Mineral Clouds on Giant Gas Planets**
Christiane Helling (University of St Andrews)
- 17:45 – 18:00 **Concluding Remarks**
Nader Haghighipour