

Wednesday August 29, 2012

Planets in and around Binary Stars (Chair: *Natalie Batalha*)

- 10:30 – 10:45 **Recent Kepler Results on Circumbinary Planets**
William Welsh (San Diego State University)
- 10:45 – 11:00 **Prospects of the Detection of Additional Circumbinary Extrasolar Planets**
Tobias Hinse (Korea Astronomy and Space Science Institute)
- 11:00 – 11:15 **On the Habitability of Terrestrial Planets in Binary Star Systems**
Elke Pilat-Lohinger (Institute of Astrophysics, University of Vienna)
- 11:15 – 11:30 **Habitability of Planet-Hosting Binary Star Systems: Calculating Habitable Zone for Circumprimary and Circumbinary Planets**
Nader Haghighipour (Institute for Astronomy, University of Hawaii)
- 11:30 – 11:45 **Mutual Inclinations of Multi-Planet Systems and Circumbinary Planets and the Assembly of Proto-Planetary Disks**
Dong Lai (Cornell University)
- 11:45 – 12:00 **Trojans in Exosystems with Two Massive Planets**
Rudolf Dvorak (Institute of Astrophysics, University of Vienna)
- 12:00 – 12:15 **Exomoon Habitability Constrained by Illumination and Tidal Heating**
René Heller (Leibniz-Institute for Astrophysics)
- 12:15 – 12:30 **Exoplanets Behaving Badly with Their Host Stars: Evidence of Transfer of Planet Orbital Angular Momentum to Their Host Stars - Case Study of the Hot Jupiter System HD 189733 (and other examples)**
Edward Guinan (Villanova University)
- 12:30 – 14:00 **Lunch Break**

Atmospheric Characterization: Giant Planets (Chair: *Elke Pilat-Lohinger*)

- 14:00 – 14:30 **Atmospheric Characterization of Extrasolar Planets (Invited)**
Jean-Michel Desert (Harvard)
- 14:30 – 14:45 **Atmospheric Dynamics of Short Period Planets**
Ian Dobbs-Dixon (University of Washington)
- 14:45 – 15:00 **Near-infrared Thermal Emission of Hot Jupiters**
Bryce Croll (MIT)

15:00 – 15:15 **Characterizing Hot Jupiter Atmospheres: New Results from Hubble WFC3**
Sukrit Ranjan (Harvard)

15:15 – 15:30 **WASP-12b and 4b: Closing in on the Compositions of Highly-Irradiated Exoplanet Atmospheres**
Morgan Hollis (University College London)

15:30 – 16:00 **Break**

Atmospheric Characterization: Terrestrial Planets (Chair: *Othon Winter*)

16:00 – 16:30 **Climate Regimes of Tidal-Locking Aqua-Exoplanets (Invited)**
Yongyun Hu (Peking University)

16:30 – 16:45 **Temporal Variations in the Evaporating Atmosphere of the Exoplanet HD 189733b**
Alain Lecavelier des Etangs (IAP-CNRS)

16:45 – 17:00 **Diversity of Planetary Atmospheric Circulations and Climates in a Simplified General Circulation Model**
Yixiong Wang (University of Oxford)

17:00 – 17:15 **Photochemistry of Terrestrial Exoplanet Atmospheres and Applications in Searching for Biosignature Gases**
Renyu Hu (MIT)

17:15 – 17:30 **Terrestrial Planet Atmospheric Characterization with HST: From Venus to 55 Cancri e**
David Ehrenreich (IPAG)

17:30 – 17:45 **On the Climatic Impact of CO₂ Ice Particles in Atmospheres of Terrestrial Exoplanets**
Daniel Kitzmann (Berlin Institute of Technology)

17:45 – 18:00 **Capabilities of the James Webb Space Telescope for Exoplanet Imaging**
Mark Clampin (NASA Goddard Space Flight Center)