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 Habitable 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)