Habitable planets, M dwarfs and NIR spectrographs (Part I)

SatMeet4: Monday, July 13, 2015 (14:00-16:30)
Lecture room 205

Program

Hour	Title	Contributor
14:00-14:10	Welcome and introduction to joint satellite meeting *"Validation and compilation of Kepler habitable zone candidates"* and *"Habitable planets, M dwarfs and NIR spectrographs"*	Nader Haghighipour
14:10-15:40	**Validation and compilation of *Kepler* habitable zone candidates** (SatMeet5)	
15:40-15:55	*Tidal locking around M dwarfs*	Eric T. Wolf (U. Colorado, USA)
15:55-16:10	*3D general circulation models to determine habitable zones around M dwarfs*	Jérémy Leconte (CITA/CPS, Canada)
16:10-16:30	Open discussion: *Kepler Habitable Zone Working Group and η-Earth*	Moderators: Nader Haghighipour, Stephen R. Kane, Ravi K. Kopparapu (convenors of SatMeet5)

Convenors of Part I:

- **Ravi R. Kopparapu** (PennState, USA)
- José A. Caballero (CAB, Madrid, Spain)

Habitable planets, M dwarfs and NIR spectrographs (Part II)

SatMeet4: Tuesday, July 14, 2015 (14:00-16:30)
Lecture room 205

Program

Hour	Title	Contributor
14:00-14:10	Welcome and introduction to satellite meeting, Part II	José A. Caballero
14:10-14:25	*Stellar activity of M dwarfs with planets*	Jorge Sanz-Forcada (CAB, Spain)
14:25-14:40	*Atmospheric chemistry of planets around M dwarfs*	Peter Gao (Caltech, USA)
14:40-14:55	*False positive biosignatures on habitable planets around M dwarfs*	Sonny Harman (PennState, USA)
14:55-15:10	*Habitable planets around M dwarfs: from Kepler to TESS, PLATO, JWST and beyond*	Ravi K. Kopparapu (PennState, USA)
15:10-15:25	*HPF: Habitable Planet Finder (HET)*	Suvrath Mahadevan (PennState, USA)
15:25-15:40	*SPIRou: SpectroPolarimétre InfraRouge (CFHT)*	Isabelle Boisse (LAM/Pythéas/AMU, France)
15:40-15:55	*IRD: InfraRed Doppler instrument (Subaru)*	Takayuki Kotani (NAOJ, Japan)
15:55-16:10	*CARMENES: Calar Alto high-Resolution search for M dwarfs with Exoearths with Near-infrared and optical Échelle Spectrographs (3.5m CAHA)*	Andreas Quirrenbach (LSW/ZAH, Germany)
16:10-16:30	Open discussion: *Habitable planets around M dwarfs and NIR spectrographs: synergies and future*	Moderator: José A. Caballero

Convenors of Part II:

- **José A. Caballero** (CAB, Madrid, Spain)
- Ravi R. Kopparapu (PennState, USA)
- Suvrath Mahadevan (PennState, USA)

Habitable planets, M dwarfs and NIR spectrographs (Part III)

SatMeet4: Wednesday, July 15, 2015 (14:00-16:30)
Lecture room 205

Program

Hour	Title	Contributor
14:00-14:05	Welcome and introduction to satellite meeting, Part III	José A. Caballero
14:05-14:20	*Giano: a bifront infrared spectrometer highly optimized for both low and high spectral resolution (TNG)*	Riccardo Claudi (INAF Padova, Italy)
14:20-14:35	*NAHUAL: a high-resolution echelle spectrograph for large telescopes (10.4 m GTC)*	Carlos del Burgo (INAOE, Mexico)
14:35-14:50	*TARdYS: Tao Aiuc high Resolution (d) Y-band Spectrograph (6.5 m TAO)*	Leonardo Vanzi (Pontificia UC, Chile)
14:50-15:10	*CSHELL (IRTF), iSHELL: inmersion-grating high-resolution echelle spectrograph (IRTF) and MINERVA-Red: NIR single-mode spectrometer (0.7 m Mt. Hopkins)*	Peter Plavchan (Missouri State, USA)
15:10-15:25	*HIRES: High Resolution Spectrograph (E-ELT)*	Livia Origlia (INAF Bologna, Italy)
15:25-15:40	*NIR bulk spectrographs*	Christian Schwab (Macquarie U, Australia)
15:40-15:55	*NIR laser combs*	Scott Diddams (NIST, USA)
15:55-16:10	*NIR Fabry-Pérot etalons*	Samuel Halverson (PennState, USA)
16:10-16:30	Open discussion: *Technology for NIR spectrograps: status, problems and solutions, synergies and future*	Moderator: Suvrath Mahadevan

Convenors of Part III:

- **Suvrath Mahadevan** (PennState, USA)
- José A. Caballero (CAB, Madrid, Spain)