

# Hot Planets and Cool Stars

## RoPACS conference, MPE, 12-16 Nov 2012

### **Monday 12<sup>th</sup> November**

8:30-9:00 Registration

#### **9:00 – 9:30**

Introduction (30 mins)

[Roberto Saglia – Welcome \(9:00-9:10\)](#)

[David Pinfield – RoPACS and over-view \(9:10-9:30\)](#)

#### **9:30 – 10:55**

WFCAM Transit Survey 1 (1 hr 25 mins)

[Brigitta Sipocz - WTS: A near-infrared transit survey \(15+5 mins\)](#)

[Gabor Kovacs - WTS: Hot Jupiters around M dwarfs, a sensitivity analysis \(15+5 mins\)](#)

[Michele Cappelletta – WTS-1b \(15+5 mins\)](#)

[Jayne Birkby - WTS-2 b: too close for comfort? \(20+5 mins\)](#)

#### **10:55 – 11:15**

Coffee (20 mins)

#### **11:15 – 12:15**

WFCAM Transit Survey 2 (1 hr)

[Jesus Zendejas – WTS Difference imaging \(15+5\)](#)

[Niall Goulding - Periodic Variability of Spotted M dwarfs in WTS \(15+5\)](#)

[Hristo Stoev - Classification of variable stars in the WFCAM Transit Survey \(15+5\)](#)

#### **12:15 – 13:00**

Kepler 1 (45 mins)

[Martin Still - The Extended Kepler Project - New Discovery Space, Open Archives, Public Mission \(20+5\)](#)

[Dimitris Mislis - High accuracy & long timescale light curves \(15+5\)](#)

#### **13:00 – 14:30**

Lunch (1 hr 30 mins)

#### **14:30 – 15:15**

Kepler 2 (45 mins)

[Stuart Taylor - Flow of planets, not weak tidal evolution, determines short-period distribution\(10+5\)](#)

[David Armstrong - An automated search for circumbinary planets \(10+5\)](#)

[Francesca Faedi - The SOAPS project: Spin-Orbit Alignment of Planetary Systems \(10+5\)](#)

#### **15:15 – 15:45**

Coffee (20 mins)

#### **15:45 – 17:00**

Other transit surveys 1 (1hr 15 mins)

[Gaspar Bakos – Hat \(20+5\)](#)

[Johannes Koppenhofer - Pan-PlanetS \(15+5\)](#)

[Sergio Hoyer – Transit Monitoring in the South \(TraMoS\) project \(10+5\)](#)

[Ronny Errmann –YETI - search for young transiting planets \(10+5\)](#)

## **Tuesday 13<sup>th</sup> Nov**

8:30-9:00 Registration

### **9:00 – 11:15**

Other transit surveys 2 (2 hrs 15 mins)

F. Faedi (for Don Pollacco) - The SuperWASP and NGTS ultra wide field exoplanets surveys (20+5)

Alessandro Sozzetti – APACHE (20+5)

Enric Pallé – LCOGT (15+5)

Ignas Snellen – MASCARA (15+5)

Christopher Broeg – CHEOPS (20+5)

Michael Gillon – A transit survey targeting ultra-cool dwarfs (15+5)

### **11:15 – 11:35**

Coffee (20 mins)

### **11:35 – 12:40**

Eclipsing binaries (1hr 5 mins)

Paul Steele – WD-BD eclipsing binaries (15+5)

Max Kuznetsov - The spectroscopic study of M8.5-M9.5 stars and brown dwarfs (15+5)

Matt Burleigh - Searching for planets around white dwarfs (20+5)

### **12:40 – 14:10**

Lunch (1 hr 30 mins)

### **14:10 – 15:35**

Radial velocity 1 (1 hr 25 mins)

James Jenkins - The Search for Exoplanets at Universidad de Chile (20+5)

John Barnes - Red Optical Planet Survey: A radial velocity search for low mass M dwarf planets (15+5)

Mikko Tuomi - Signals embedded in the radial velocity noise (15+5)

Xavier Bonfils (15+5): HARPS Low-mass/habitable/transiting planets orbiting M dwarfs

### **15:35 – 15:55**

Coffee (20 mins)

### **15:55 – 17:30**

Radial velocity 2 (1 hr 35 mins)

Martin Kurster - Jupiter analogues and planets of active stars (10+5)

Andreas Quirrenbach – CARMENES (20+5)

Mari-Cruz Galvez - Benchmark low-mass object in Moving Groups (15+5)

Florian Rodler - The return of the mummy: evidence for starlight reflected from the massive hot Jupiter Tau Boo b (10+5)

David Barrado - Follow-up at Calar Alto of Kepler planet candidates: high spatial resolution imaging and spectroscopy (15+5)

## **Wednesday 14<sup>th</sup> November**

8:30-9:00 Registration

### **9:00 – 9:40**

Radial velocity 3 (40 mins)

[Luca Pasquini](#) - [New spectrographs for planet radial velocity searches \(20+5\)](#):

[Guillem Anglada](#) - [Advances in spectral analysis of cool stars \(10+5\)](#)

### **9:40 – 10:40**

[Julia Epp](#) (EU Office) – [Introduction to EU Grants and Fellowships \(1 hr\)](#)

### **10:40 – 11:00**

Coffee (20 mins)

### **11:00 – 12:40**

Ultracool atmospheres and wide-field survey complementary science 1 (1 hr 40mins)

[Nicolas Lodieu](#) - [Ultracool dwarfs in open clusters and star-forming regions \(20+5\)](#)

[Joana Gomes](#) - [Searching for benchmark systems containing ultra-cool dwarfs and white dwarfs \(15+5\)](#)

[Avril Day-Jones](#) - [Measuring ultracool properties from the UKIDSS Large Area Survey \(15+5\)](#)

[David Pinfield](#) - [Sub-stellar objects with habitable zone temperatures: a new search for Y dwarfs in WISE \(15+5\)](#)

[Silvia Catalan](#) - [Cool white dwarfs in the WFCAM Transit Survey \(10+5\)](#)

### **12:40 – 14:10**

Lunch (1 hr 30 mins)

### **14.10 – 14:55**

Ultracool atmospheres and wide-field survey complementary science 2 (45 mins)

[Leigh Smith](#) - [A 2 Epoch Proper Motion Catalogue from the UKIDSS Large Area Survey \(10+5\)](#)

[Zenghua Zhang](#) - [Purple dwarfs: new L subdwarfs from UKIDSS and SDSS \(10+5\)](#)

[Alexander Mustill](#) – [WD planets \(10+5\)](#)

### **14:55 – 15:35**

Astrobiology (40 mins)

[Antonio Garcia-Munios](#) - [Lunar eclipses: Probing the atmosphere of an inhabited plane \(20+5\)](#)

[Rene Heller](#) - [Constraints on exomoon habitability \(10+5\)](#)

### **15:35 – 15:55**

Coffee (20 mins)

### **15:55 – 16:45**

Planet formation (50 mins)

[Doug Lin](#) - [The diverse origin of hot Jupiters and super Earths \(20+5\)](#)

[Dimitris Stamatellos](#) - [Planet formation by disc fragmentation \(20+5\)](#)

**19:30** - Conference Dinner

## **Thursday 15<sup>th</sup> November**

8:30-9:00 Registration

### **9:00 – 11:05**

Characterization of host stars (2 hrs 5 mins)

Jeff Valenti - Spectroscopic analysis of cool stars - implications for planet formation (20+5)

Sandra Jeffers - Realistic limitations of detecting planets around young active stars (20+5)

Yakiv Pavlenko - New procedure of the fine analysis of spectra of F- G- K- stars (15+5)

Oleksiy Ivanyuk - Spectroscopic abundance analysis of the 100 stars from the CHEPS sample (15+5)

Andy Moya - Pulsating stars harbouring planets (15+5)

Barbara Rojas-Ayala - M dwarf Metallicities and Temperatures from K-band Spectra (10+5)

### **11:05 – 11:20**

Coffee (15 mins)

### **11:20 – 12:25**

CoRoT (1 hr 5 mins)

Hans Deeg - CoRoT: past, present and future (15+5)

Hannu Parviainen - Secondary eclipses in the CoRoT light curves (15+5)

Juan Cabrera - Derivation of the parameters of CoRoT planets (20+5)

### **12:25 – 13:05**

Transit spectroscopy (40 mins)

Ignas Snellen - The future of ground-based high-dispersion spectroscopy (15+5)

Felipe Murgas - Transit Spectroscopy with GTC (15+5)

### **13:05 – 14:20**

Lunch (1 hr 15 mins)

### **14:20 – 15:20**

Model atmospheres (1 hr)

Derek Homeier - Cool Dwarfs and Hot Giants - Atmosphere Models across the Substellar Transition (20+5)

Grygorii Polinovskyi - Modelling of telluric spectra in the framework of 1D approach (15+5)

Vivien Parmentier - Mechanisms affecting the composition of Hot Jupiters atmospheres (10+5)

### **15:20 – 15:40**

Coffee (20 mins)

### **15:40 – 17:10**

Direct detection of planets (1 hr 30 mins)

Ernst de Mooij - Ground-based secondary eclipse observations (20+5)

Peter Wheatley - NGTS: The Next Generation Transit Survey (10+5)

Nadia Kostogryz - A spectral differential characterization of low-mass companions (15+5)

Marie Eve-Naud - A distant planetary-mass companion to a young M star (10+5)

Ian Crossfield - Re-evaluating the Very Hot Jupiter WASP-12b (10+5)

## **Friday 16<sup>th</sup> November**

### **9:00 – 10:35**

Planetary disks (1 hr 35 mins)

Leonardo Testi – [Herschel & Alma](#) (20+5)

Barbara Ercolano – [Dispersal of proto-planetary disks](#) (20+5)

Olga Zakhozhay - [Spectral energy distributions of fragmenting protostellar disks](#) (15+5)

Ngoc Phan Bao – [Outflows and Disks of Brown Dwarfs with SMA, CARMA and ALMA](#) (20+5)

### **10:35 – 10:55**

Coffee (20 mins)

### **10:55 – 12:55**

Future space missions 1 (2 hrs)

Matthew Stuttard – [Astrium](#) (20+5)

Giovanna Tinetti – [EChO](#) (20+5)

James Frith – [Targets for future space missions](#) (15+5)

Juan Cabrera (for Don Pollacco) – [PLATO](#) (20+5)

Boccaletti - [SPICES](#) (20+5)

### **12:55 – 14:25**

Lunch (1 hr 30 mins)

### **14:25 – 15:10**

Future space missions 2 (45 mins)

Mario Lattanzi – [GAIA](#) (20+5)

Carlos del Burgo – [PHASES](#) (15+5)

### **15:10 – 15:30**

Coffee (20 mins)

### **15:30 – 16:15**

Future space missions 3 (45 mins)

Jean-Philippe Beaulieu - [Space-based micro-lensing planet searches](#) (20+5)

Eduardo Martin – [Euclid legacy](#) (15+5)

### **16:15 – 16:30**

Closing remarks

David Pinfield (15 mins)

### **16:30 Finish**