



Hot Planets and Cool Stars Program

Nov 12-16, 2012
Max Planck Institute for extraterrestrial Physics
Garching, Germany

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Days Hours Mins Secs



The international conference organized by the
RoPACS network

Coordinator: David Pinfield
November 2012

RoPACS – Rocky Planets Around Cool Stars (FP7 Initial Training Network)

- Started in December 2008
- 6 academic nodes
- + Industrial Partner Astrium
- + Associated Partners (Leiden, Mexico, Paris, Porto)
- + Teaching partners (SLC, UNED)
- Last 2-3 yrs, 15 RoPACS funded Fellows (11 ESRs & 4 ERs) recruited into our network (a community of ~70 people)

	UH	UCAM	IAC	MPG	LAEFF	MAO	Astrium	APs
Staff	4	1	4	5	2	6	3	8
ESR-PhD	3	1	2	2	2	1	(1: UH)	-
Other-PhD	3	1	1	-	-	-	-	2
ER-PDRAs	1	1	1	1	-	-	-	-
Other-PDRAs	4	0	5	2	5	-	-	-

RoPACS research

Our own ground-based transit survey (WTS):

- We'll be hearing about a range of WTS science;
 - Transiting planets
 - Eclipsing binary systems (Mdwarfs WDs and brown dwarfs)
 - M dwarf activity
 - Variable stars
 - Cool WDs
- We've also worked on other space + ground-based transit surveys;
 - Kepler
 - CoRoT
 - Pan-Planets

RoPACS research

And RoPACS has worked in a variety of other areas:

- Radial velocity (new analysis methods, growing data-sets)
- Characterization of host stars (range of modeling and observations)
- Transit spectroscopy
- Direct detection
- Study of ultracool atmospheres
- Modeling of cool star and planet atmospheres
- Future space missions

Conference sessions

The RoPACS research areas form sessions

- Including many talks from external speakers

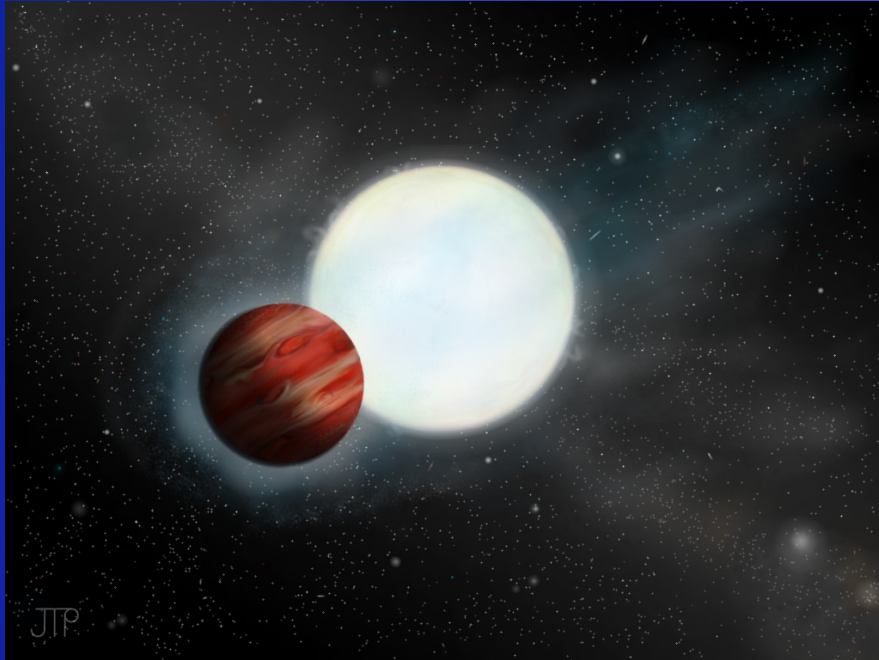
And we have expanded the sessions to cover the broader context;

- Wide range of other transit surveys
- Planet formation
- Astrobiology
- Planetary disks
- WD planets

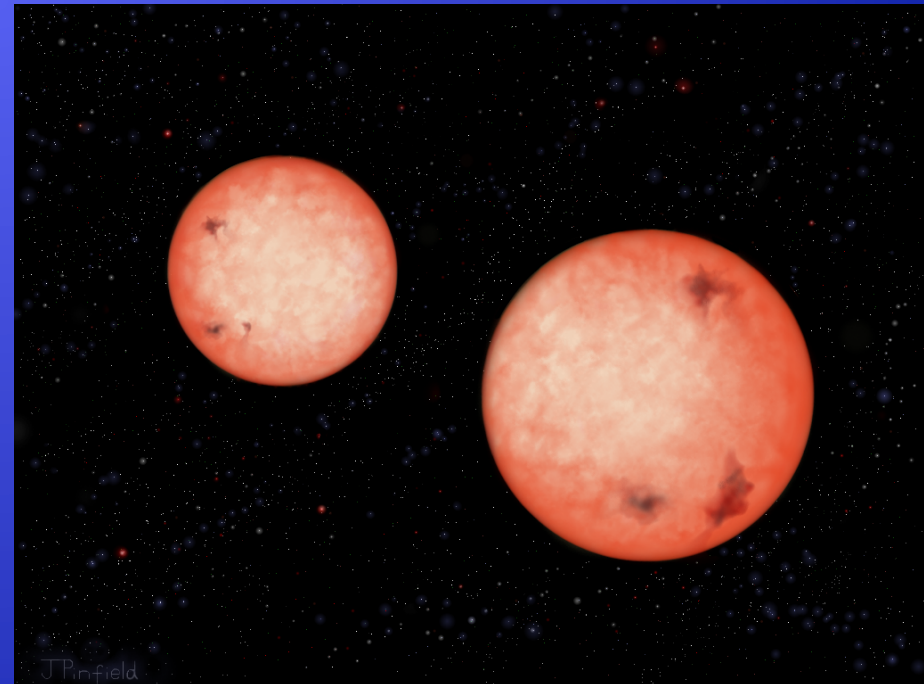
Conference sessions

- Over the next 5 days we have;
- 86 talks
- 32 from the Fellows + their RoPACS supervisors / collaborators
- 54 external (27 invited)

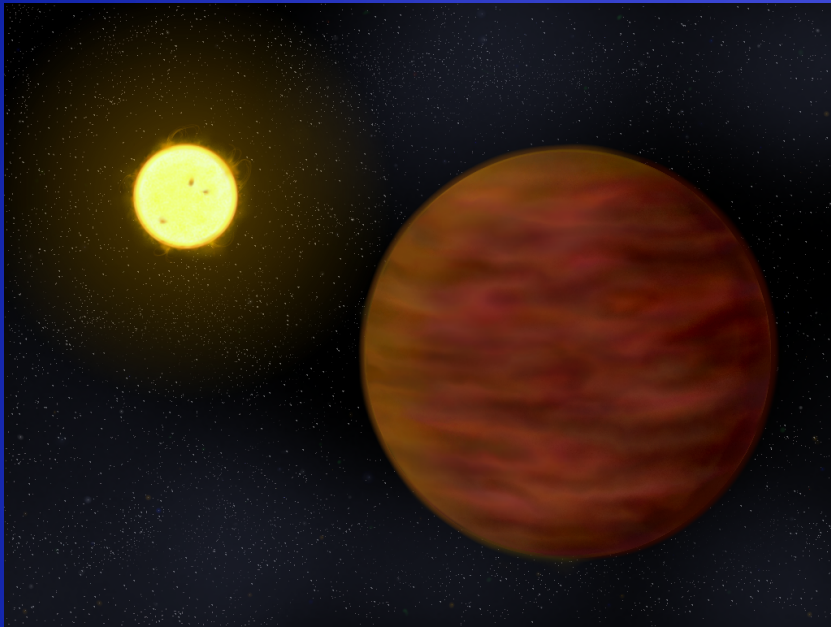
A few illustrated examples from RoPACS press



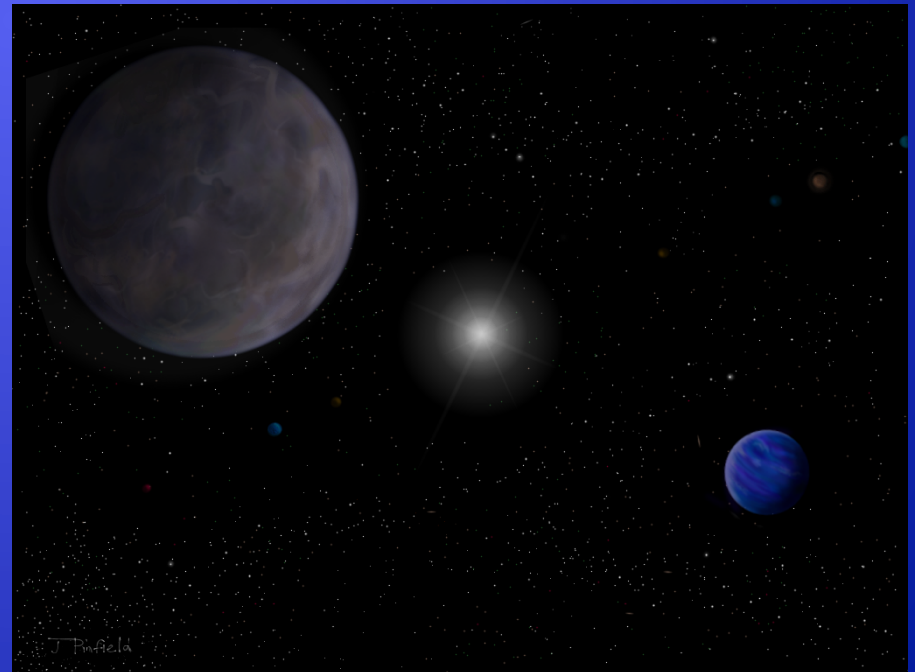
- New WTS transiting planets
- Unexpected eclipsing binaries



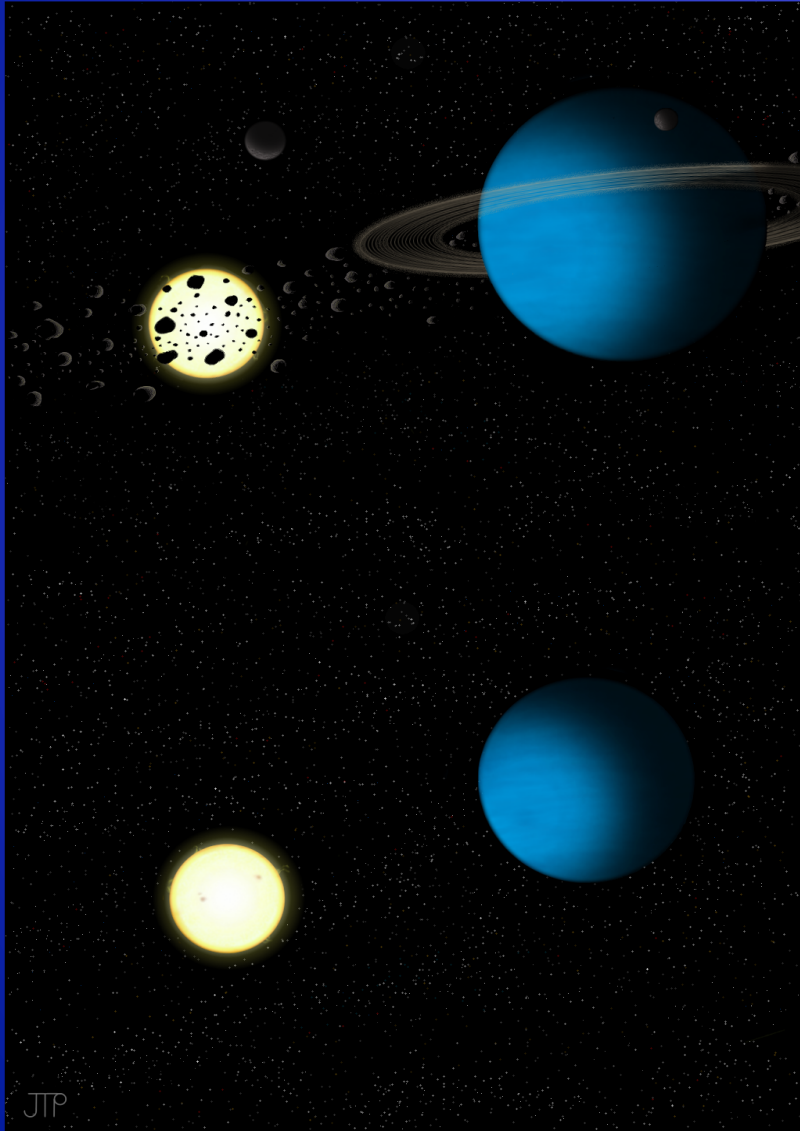
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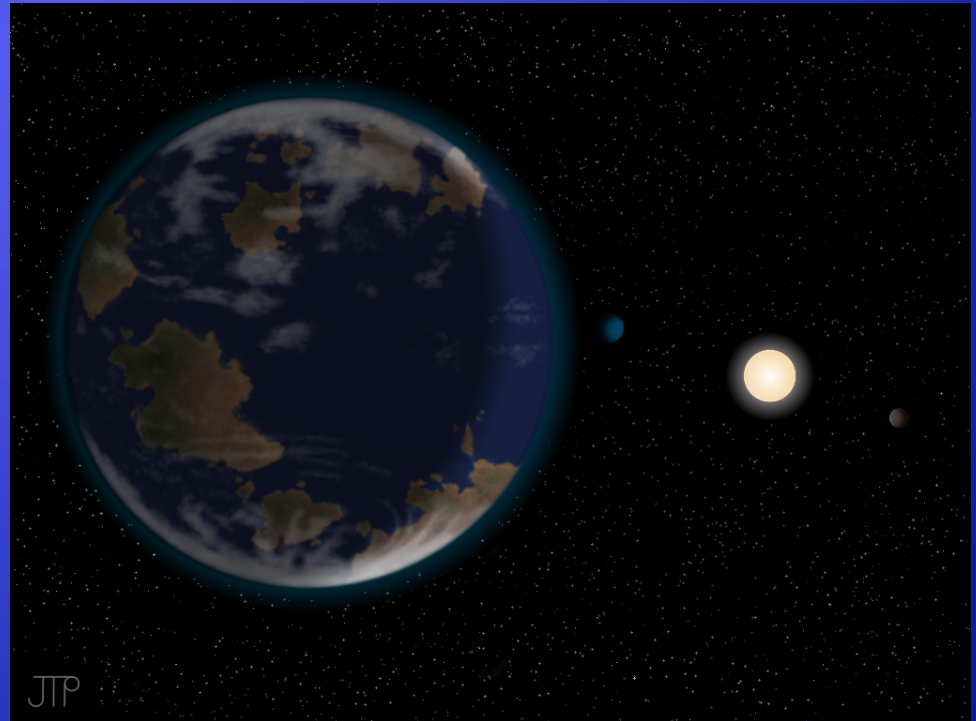
- Ultracool companions from WISE
- Evidence for 9 planets around HD10180



A few illustrated examples from RoPACS press



- Lowest mass metal rich planet
- Super-Earth in HZ around K2.5 dwarf HD40307



Lets move onto the hot topics of
“Hot Planets and Cool Stars”

Thanks and enjoy!