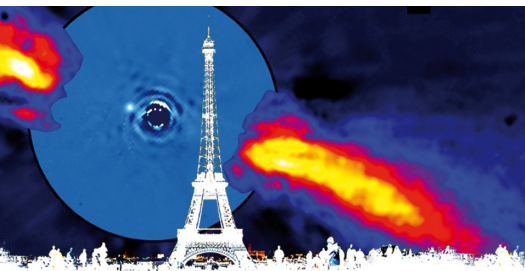


International Conference  
**In the Spirit of Lyot 2010**  
 Paris, October 25<sup>th</sup> to 29<sup>th</sup>, 2010  
 Direct Detection of Exoplanets and Circumstellar Disks



## Program

### Monday 25 October

Chairman : A. Boccaletti (am) / P. Kalas (pm)

8:30 Registration

#### Session 1: What is the current status of exoplanet science ?

10:15	<i>Introduction</i>	A. BOCCALETTI
10:30	<i>Detection and characterization of exoplanets: from gaseous giants to super-Earths (review)</i>	S. UDRY
11:00	<i>From frozen Super Earth to habitable Earth via microlensing</i>	J.-P. BEAULIEU

#### Session 2: Direct imaging ongoing programs

11:15	<i>Deep Imaging of Giant Planets (review)</i>	G. CHAUVIN
11:45	<i>The International Deep Planet Survey</i>	C. MAROIS
12:00	<i>The Gemini NICI Planet-Finding Campaign</i>	M. LIU
12:15	<i>A Uniform Analysis of 118 Stars with High-contrast Imaging: Long-period Extrasolar Giant Planets are Rare Around Sun-like Stars</i>	E. NIELSEN

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12:30 LUNCH

14:00	<i>First results from SEEDS</i>	M. TAMURA
14:15	<i>High Contrast Studies of Nearby Stars with Project 1640</i>	N. ZIMMERMAN
14:30	<i>Observations of beta Pictoris b</i>	A.-M. LAGRANGE
14:45	<i>Spatially resolved spectroscopy in the HR 8799 planetary system</i>	M. JANSON
15:00	<i>The coolest Companion to a Sun-like Star: News on Follow-up Observations of GJ758B</i>	M. FELDT

15:15 Poster Express

15:40 Poster Session

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16:10 BREAK

16:40	<i>Spectral comparison of directly imaged, young substellar companions using integral field spectroscopy - construction of an empiric log g sequence</i>	T. SCHMIDT
16:55	<i>A direct imaging survey for Exoplanets around early-type stars</i>	M. KASPER

17:10	<i>Direct detection of exoplanets and circumstellar disks using NaCo APP and NaCo PDI</i>	S. QUANZ
17:25	<i>A VLT/AMBER closure-phase search for low-mass companions around nearby young stars: first results on beta Pictoris</i>	O. ABSIL
17:40	<i>Results from the Arizona MMTO survey for giant exoplanets around nearby A stars</i>	M. KENWORTHY
17:55	<i>Direct imaging of the brown dwarf/planet-mass companions to HR 8799 and GJ 758 from 1 to 5 microns: Constraints on atmospheric properties</i>	T. CURRIE
19:30	Cocktail at Paris Observatory	

## Tuesday 26 October

*Chairman : G. Tinetti (am) / M. Kasper (pm)*

### Session 3: Direct detection with transit spectroscopy

9:00	<i>Optical &amp; Infrared Spectroscopy of Transiting Exoplanets (review)</i>	C. GRIFFITH
9:30	<i>Detecting transiting exoplanets' atmospheric signatures</i>	I. WALDMANN
9:45	<i>Ground-based Spectroscopic Characterization of Close-in Exoplanets</i>	C. BENDER

### Session 4: Planetary formation

10:00	<i>Formation and orbital evolution of planets in wide orbits (review)</i>	E. FORD
10:30	BREAK	
11:00	<i>Planet formation: theory versus observations (review)</i>	Y. ALIBERT
11:30	<i>Collisional Grooming Models of the Kuiper Belt x1, x10, x100, x1000</i>	M. KUCHNER
11:45	<i>Observing Gap Opening by Planets</i>	H. JANG-CONDELL

### Session 5: Circumstellar disks

12:00	<i>Cold Disks around Nearby Stars. An overview of the DUNES search for Extra-Solar Kuiper-Belt Analogs</i>	J.-C. AUGEREAU
12:15	<i>Fine Structures of Giant Planet Forming Regions around a Young Star of AB AUr</i>	J. HASHIMOTO
12:30	LUNCH	
14:00	<i>Ongoing planet formation around LkCa 15?</i>	C. THALMANN
14:15	<i>Dissecting the Moth: Resolving the offset debris ring around HD61005 with VLT/NACO</i>	E. BUENZLI
14:30	<i>Direct Polarimetric Detection of Scattered, Optical Light from Debris Disks</i>	S. WIKTOROWICZ

14:45	<i>Determining the amount of dust in the habitable zone: a Keck Noller survey of 26 nearby main sequence stars</i>	B. MENESSION
15:00	<i>Poster Express</i>	
15:25	<i>Poster Session</i>	
15:55	BREAK	

## Session 6: Evolutionary models and planetary atmospheres

16:25	<i>From solar-system planets to exoplanets (review)</i>	T. ENCRENAZ
16:55	<i>The ages of stars hosting substellar companions (review)</i>	E. MAMAJEK
19:00	Public Conference	A.-M. LAGRANGE and G. TINETTI

## Wednesday 27 October

*Chairman : A.-M. Lagrange (am)*

## Session 6: Evolutionary models and planetary atmospheres (con't)

9:00	<i>Modeling the Atmospheres and Evolution of Exoplanets (review)</i>	T. BARMAN
9:30	<i>Cool atmosphere models and observations: liability and limits of brown dwarfs and exoplanets physical parameters determination.</i>	P. DELORME
9:45	<i>Calculation of the FUV emissions of a hot Jupiter</i>	H. MENAGER
10:00	<i>Testing Models with Dynamical Masses of Ultracool Binaries</i>	T. DUPUY
10:15	<i>The age of HR8799</i>	R. DOYON
10:30	BREAK	

## Session 7: Near term planned facilities

11:00	<i>Overview of the James Webb Space Telescope and its Capabilities for Exoplanet Science (review)</i>	R. DOYON for M. CLAMPIN
11:30	<i>Characterization of exoplanets with the JWST/MIRI instrument</i>	P.-O. LAGAGE
11:45	<i>Observing Planets with JWST/NIRCAM</i>	C. BEICHMAN
12:00	<i>Planetary system and star formation science with non-redundant masking on JWST</i>	A. SIVARAMAKRISHNAN
12:15	<i>The Tunable Filter Imager (TFI) of the JWST</i>	D. LAFRENIERE
12:30	LUNCH	

13:30 Visit of Meudon Observatory

## Thursday 28 October

Chairman : M. Tamura (am) / R. Doyon (pm)

### Session 7: Near term planned facilities (con't)

9:00	<i>SPHERE : a planet imager for the VLT (review)</i>	J.-L. BEUZIT
9:30	<i>The Gemini Planet Imager (review)</i>	J. GRAHAM
10:00	<i>The Integral Field Spectrograph of the Gemini Planet Imager</i>	M. PERRIN
10:15	<i>Towards Very High Contrast Imaging with Project 1640 at the Hale Telescope</i>	G. VASISHT
10:30	BREAK	
11:00	<i>The Subaru coronagraphic extreme AO (SCEXAO) system: using new approaches for high contrast imaging on a large telescope</i>	V. GARREL
11:15	<i>Preparation to the scientific exploitation of SPHERE</i>	D. MOUILLET
11:30	<i>Photometric characterization of exoplanet using angular and spectral differential imaging in SPHERE/IRDIS</i>	A. VIGAN
11:45	<i>Polarimetry of extra-solar planets and circumstellar disks with ZIMPOL / SPHERE</i>	H.-M. SCHMID
12:00	<i>Observations of Exoplanets with the Stratospheric Observatory for Infrared Astronomy (SOFIA)</i>	R. GEHRZ
12:15	<i>Extra-solar planet imaging: ground vs. space based coronagraphs</i>	C. HANOT
12:30	<i>IMAGES: An IMAge Archive Generated for Exoplanet Surveys</i>	B. BILLER for A. TANNER
12:45	LUNCH	

### Session 8: Enabling technologies for high contrast

14:15	<i>Achromatic Optics for Phase Apodization Coronagraphy</i>	J. CODONA
14:30	<i>Advances in optimization and wavefront sensing aspects of the Dual Zone Phase Mask coronagraph</i>	M. N'DIAYE
14:45	<i>Achromatic multi-four quadrant phase mask coronagraph: laboratory demonstration</i>	R. GALICHER
15:00	<i>First manufactured diamond AGPM vector vortex for the L- and N-bands: metrology and expected performances</i>	C. DELACROIX
15:15	<i>Poster Express</i>	
15:40	<i>Poster Session</i>	
16:10	BREAK	
16:40	<i>Interference-Based Coronagraphy for Speckle Detection</i>	E. JENSEN
16:55	<i>Using the vector vortex coronagraph in the ExAO regime at Palomar: lessons learned</i>	D. MAWET
17:10	<i>Adaptive coronagraphic binary masks</i>	V. CANALES
20:00	Conference Diner	

## Friday 29 October

Chairman : H.-M. Schmid (am) / L. Mugnier (pm)

### Session 8: Enabling technologies for high contrast (con't)

9:00	<i>Behind the coronagraphic mask</i>	F. MARTINACHE
9:15	<i>Experimental Progress and Limitations of Optimal Wavefront Correction in Polychromatic Light</i>	T. GROFF
9:30	<i>Poster Express</i>	
9:55	<i>Poster Session</i>	
10:25	BREAK	
10:55	<i>Laboratory test of application of Electric Field Conjugation image-sharpening to ground-based adaptive optics</i>	S. THOMAS
11:10	<i>Towards direct detection of exo-Earths: high contrast lab demonstration at 2 I/D</i>	R. BELIKOV
11:25	<i>Accurate wavefront sensing in focal plane: laboratory and numerical results</i>	M. MAS
11:40	<i>Quasi static speckle calibration using an Integral Field Spectrograph: extraction of the spectra of a faint companion</i>	L. PUEYO
11:55	<i>FFREE: a Fresnel-FREE demonstrator for the common-path optics within EPICS</i>	J. ANTICHI
12:10	<i>High Dynamic Range Imaging with the FIRST instrument</i>	G. PERRIN
12:25	<i>Analytical expression for long exposure coronagraphic imaging</i>	J.-F. SAUVAGE
12:40	LUNCH	

### Session 9: Future ground and space projects

14:00	<i>The concept study of EPICS, the exoplanets imager for the EELT</i>	C. VERINAUD
14:15	<i>Mid-infrared studies of exoplanets using the E-ELT METIS instrument</i>	E. PANTIN
14:30	<i>Follow-up spectroscopy of directly detected exo-planets with EELT/HARMONI</i>	M. TECZA for N. THATTE
14:45	<i>Coronagraph with SPICA</i>	K. ENYA
15:00	<i>Visible Spectroscopy of Terrestrial Exoplanets with SEE-COAST</i>	A.-L. MAIRE
15:15	<i>Hybrid Lyot Coronagraph for the ACCESS Mission</i>	J. TRAUGER
15:30	BREAK	
16:00	<i>Exoplanet Detection and Characterization with a Combined Space Astrometry and Coronagraphy Mission</i>	O. GUYON
16:15	<i>Occulter Based Missions of Different Scales for Terrestrial Planet Imaging</i>	J. KASDIN
16:30	<i>Direct imaging and spectroscopy of terrestrial planets with JWST and a starshade</i>	R. SOUMMER
16:45	<i>The Synergy of Direct Imaging and Astrometry for Detection of exo-Earths</i>	J. CATANZARITE
17:00	<i>New Concept for Direct Detection and Spectra of Exoplanets</i>	T. MATSUO
17:15	<i>The Exoplanet Imaging Performance Study</i>	W. TRAUB
17:30	End of the Conference	