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## **Organising Committee**

- Giovanna Tinetti (Director-UCL)
- Ugo Moschella (Director-Insubria)
- Monica Colpi, Massimo Dotti (Bicocca)
- Sergio Cacciatori, Vittorio Gorini, Francesco Haardt, Oliver Piattella (Insubria)

Only nine planets were known before the nineties, namely the ones orbiting our favourite star, the Sun, which then included Pluto. Thirty years later, we have «lost» Pluto but we have gained 5200+ planets in orbit around other stars. Current statistical estimates indicate that, on average, every star in our Galaxy hosts at least one planetary companion, i.e. our Milky Way is crowded with billions of planets!

The most revolutionary aspect of this young field is the discovery that the Solar System does not appear to be the paradigm in our Galaxy, but rather one of the many possible configurations we are seeing out there. These include planets completing a revolution in less than one day, as well as planets orbiting two stars or moving on trajectories so eccentric as to resemble comets. Some of them are freezing cold, some are so hot that their surface is molten. How do we progress from here?

The school is aimed at providing a comprehensive view of the nature of exoplanets, through an integrated approach covering observations, data analysis and interpretation.

Finding out why are these new worlds as they are is one of the key challenges of modern astrophysics.

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## Lecturers

Ahmed Al-Refaie (UCL) Numerical models to interpret exoplanetary data

Beth Biller (University of Edinburgh) Imaging extrasolar worlds

Masahiro Ikoma (NAOJ) How do planets form and evolve

Miguel Angel Granada (Barcelona)From the Only World to the Infinite Planetary Systems: Copernicus, Kepler,

Bruno

Pierre Olivier Lagage (CEA) Exoplanets with the James Webb Space Telescope

Malena Rice (MIT/Yale) Orbital architectures of Planetary Systems

Giusi Micela (INAF - Osservatorio di Palermo) The stellar environment

Jonathan Tennyson (UCL) Molecular spectroscopy for exoplanets

Giovanna Tinetti (UCL) Decoding the light of planets in our galaxy

Angelos Tsiaras (INAF - Osservatorio di Arcetri) Analysis of exoplanetary data: a hands-on approach

Ingo Waldmann (UCL) Artificial Intelligence and exoplanets



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## Protetto: Lectures Slides

Il contenuto è protetto da password. Per visualizzarlo inserisci di seguito la password:

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# Program

GATR\_Programme2023 (download program in pdf)



## **Lake Como School of Advanced Studies BRAVE NEW WORLDS II**

Program						
Monday, Jur	ne 12th					
9.30-10.00	Registration					
10.00-11.30	Giusi Micela	INAF (Osservatorio di Palermo)	The stellar environment			
11.30-12.00	COFFEE BREAK					
12.00-13.00	Malena Rice	MIT/Yale	Orbital architectures of planetary systems			
13.00-14.00	LUNCH BREAK					
14.00-16.00	Malena Rice	MIT/Yale	Orbital architectures of planetary systems			
16.00-16.30	COFFEE BREAK					
16.30-18.00	Giusi Micela	INAF (Osservatorio di Palermo)	The stellar environment			
Tuesday, Jun	e 13th					
9.00-10.00	Jonathan Tennyson	UCL	Molecular spectroscopy of exoplanets			
10.00-11.00	Masahiro Ikoma	NAOJ	How do planets form and evolve?			
11.00-11.30	COFFEE BREAK					
11.30-13.30	Masahiro Ikoma	NAOJ	How do planets for and evolve?			
13.30-14.30	LUNCH BREAK					
14.30-16.00	Beth Biller	University of Edinburgh	Imaging extrasolar worlds			

16.00-16.30	COFFEE BREAK					
16.30-17.30	Beth Biller	University of Edinburgh	Imaging extrasolar worlds			
17.30-18.30	Miguel A. Granada	University of Barcelona	The Extension of the Stellar sphere in the Copernican Cosmology			
Wednesday, June 14th						
9.00-11.00	Jonathan Tennyson	UCL	Molecular spectroscopy of exoplanets			
11.00-11.30	COFFEE BREAK					
11.30-13.00	Giovanna Tinetti	UCL	Decoding the light of planets in our galaxy			
13.00-14.00	LUNCH BREAK					
14.00-15.00	Giovanna Tinetti	UCL	Decoding the light of planets in our galaxy			
15.00-16.00	Angelos Tsiaras	INAF – Osservatorio di Arcetri	Analysis of exoplanetary data: a hands- on approach			
16.00-16.30	COFFEE BREAK					
16.30-18.00	Angelos Tsiaras	INAF – Osservatorio di Arcetri	Analysis of exoplanetary data: a hands- on approach			
Thursday, June 15th						
9.00-11.00	Jonathan Tennyson	UCL	Molecular spectroscopy of exoplanets			
11.00-11.30	COFFEE BREAK					
11.30-13.00	Ingo Waldmann	UCL	Artificial Intelligence and exoplanets			
13.00-14.00	LUNCH BREAK					
14.00-15.00	Ingo Waldmann	UCL	Artificial Intelligence and exoplanets			
16.00-16.30	COFFEE BREAK					
16.30-18.00	Ahmed Al-Refaie	UCL	Numerical models to interpret exoplanetary data			

9.00-10.00	Jonathan Tennyson	UCL	Molecular spectroscopy of exoplanets
10.00-11.00	Pierre Olivier Lagage	CEA	Exoplanets with the James Webb Space Telescope
11.00-11.30	COFFEE BRE	AK	
11.30-13.30	Pierre Olivier Lagage	CEA	Exoplanets with the James Webb Space Telescope
13.30-14.30	Lunch		
14.30-16.30	Presentations from participants		
16.30-17.00	COFFEE BREAK		
17.00-18.00	Miguel A. Granada	University of Barcelona	Bruno and Kepler: Affirmation and Negation of Exoplanets
18.00 -	End of the School		
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Friday, June 16th



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## Contacts

Lake Como School of Advanced Studies

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