



Lake Como School of Advanced Studies

BRAVE NEW WORLDS II

Understanding the planets of other stars

Villa del Grumello
Como - Italy

12-16 June 2023

Every star in our Galaxy hosts at least one planetary companion: our Milky Way is crowded with billions of planets!

But, the Solar System does not appear to be the paradigm in our Galaxy, but only 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?

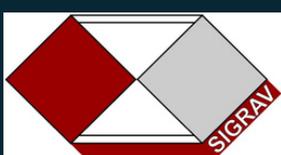
The school is aimed at providing a comprehensive view of the nature of exoplanets, through an integrated approach covering observations, data analysis and interpretation. Finding out why are these new worlds as they are is one of the key challenges of modern astrophysics.

LECTURES

- 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

ORGANIZING COMMITTEE

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APPLICATION AND INFO
<http://gatr2023.lakecomoschool.org>