

Here and There: Solar System and Exoplanetary research

KEYWORDS: Small bodies, Solar System, Observational techniques, Exoplanets, atmospheres, planetary evolution

SUMMARY: This symposium aims to unite the Solar System and Exoplanetary communities to find common ground, sharing expertise and knowledge. The symposium will have two regular blocks, one for the Solar System and one for exoplanets, and a third, a lunch session, to discuss possible synergies.

Within the Solar System block, we will discuss ongoing and future large surveys and the impact their data will have on our understanding of the Solar System (e.g., HST, JWST, GAIA, EUCLID, SPHEREx) and also the implications of recent space missions, such as Hayabusa-2 or Osiris-Rex, and other missions, such as Hera. We want to discuss the most of the upcoming data. Machine learning and Deep Learning vs. traditional methods, including techniques carried out by teams in the laboratory to analyze and interpret results and/or samples brought to Earth from space. Within the exoplanetary block, we intend to cover the main findings regarding Exoplanet detection and characterization techniques and the theories of exoplanet evolution. We will discuss the detailed characterization of exoplanet atmospheres and their interplay. Finally, it covers the next-generation observation facilities and the role of the community's involvement in them.

SOC: Alvaro Alvarez-Candal, IAA, Granada; Olga Balsalobre Ruza, CAB, Madrid; Paula Benavidez (UAlicante, Alicante); Adriano Campo Bagatin (UAlicante, Alicante); René Duffard (IAA, Granada); Emma Esparza Borges, IAC, Tenerife; Gonzalez lvarez, UCM, Madrid; Marina Lafarga Magro, U. Warwick, Warwick (UK); Julia de Leon (IAC, Tenerife); Tom Luque, University of Chicago, Chicago; Juan Carlos Morales, ICE, Barcelona; Jaume Orell Miquel, IAC, Tenerife; Parro (UAlicante, Alicante); Manuel Perger, ICE, Barcelona; Francisco J. Pozuelos, IAA, Granada; Alejandro Lopez, IAA, Granada; Toni Santana-Ros (UAlicante, Alicante); Alejandro Suarez Mascareno, IAC, Tenerife; Tabernero Guzman, UCM, Madrid.

CONTACT: alvaro@iaa.es rluque@uchicago.edu

Cerrar