

Monday 20 March

Time (CET)

Introduction

- 09:30 Welcome and logistics
- 09:40 ESA Solar System and Exoplanet missions
Gaitee Hussain, ESA

Planetary formation & evolution

- 10:00 [Using planet forming disks to unravel planet formation in the Solar System \(Invited\)](#)
Inga Kamp, University of Groningen
- 10:30 [A Comprehensive and Self-consistent Model of Terrestrial Planet Formation in the Solar System](#)
Nader Haghighipour, University of Hawaii
- 10:45 [The mass-dependence of disc lifetimes leads to differences in the planets formed](#)
Susanne Pfalzner, Forschungszentrum Jülich
- 11:00 Coffee Break
- 11:30 [Measurements of dust in the solar system as messengers for planetary science](#)
Veerle Sterken, Physics Department, IPA
- 11:45 [Birth and destruction in protoplanetary disks: dust production by planetesimal collisions](#)
Diego Turrini, INAF
- 12:00 [Gas-phase chemistry in the Jovian Circumplanetary Disk](#)
Antoine Schneeberger, LAM
- 12:15 [How long was the solar system in a stellar cluster?](#)
Phoebe Stainton, Liverpool John Moores University
- 12:30 [Imprints of birth: the effects of stellar encounters in the birth cluster on Super-Earth planetary systems](#)
Christina Schoettler, Imperial College London
- 12:45 [Galilean moon formation in a water-depleted environment](#)
Olivier Mousis, LAM

13:00 Lunch Break

- 14:00 [Unveiling early accretion from the laboratory study of carbonaceous chondrites: clues for ongoing processes in protoplanetary disks \(Invited\)](#)
Josep Trigo-Rodríguez, CSIC-IEEC
- 14:30 [Using Gaia to Find The Youngest Planets from the Prime Kepler Mission](#)
Luke Bouma, Caltech

Planetary system architecture, dynamics, stability

- 14:45 [The demographics of small exoplanets \(Invited\)](#)
Rafael Luque, University of Chicago
- 15:15 [Dynamical constraints on extrasolar systems](#)
Anne-Sophie Libert, University of Namur
- 15:30 [Exoplanetary System Architectures inferred from Kepler Systems of Multiple Transiting Planets](#)
Darin Ragozzine, Brigham Young University
- 15:45 [Planetesimal Belts in Wide Binaries: A Kozai Origin for Transiting Exocometary Material?](#)
Steven Young, Cambridge University
- 16:00 Coffee Break
- 16:30 [Investigating Exoplanet Dynamics through Transit Timing Variations](#)
Ing-Guey Jiang, National Tsing Hua University
- 16:45 [Confirming and characterizing new mean motion resonances in the Kepler and TESS catalogues](#)
Mariah MacDonald, The College of New Jersey
- 17:00 [YSES and WiSPiT: direct imaging surveys for young gas giant exoplanets](#)
Matthew Kenworthy, Leiden Observatory
- 17:15 [Hidden Figures: unveiling stellar companions to exoplanets hosts](#)
Mariangela Bonavita, The Open University
- 17:30 [The LISA mission: hunting planets in the Milky Way and beyond](#)
Camilla Danielski, IAA - CSIC
- 17:45 End of Day 1

18:00 Reception

Tuesday 21 March

Time (CET)

09:00 Synergies/Recap

Stellar/solar activity and interaction with planet

09:15 [Stellar magnetic fields, stellar winds, and their impact on exoplanets \(Invited\)](#)
Sudeshna Boro Saikia, University of Vienna

09:45 [The host star as a crucial factor for the prevalence of Earth-like Habitats](#)
Manuel Scherf, Austrian Academy of Sciences

10:00 [The interaction of Mars's ionosphere with the solar wind and crustal magnetic fields](#)
David Andrews, Swedish Institute of Space Physics

10:15 [Magnetic interaction of stellar coronal mass ejections with the atmosphere of close-in exoplanets: comparison with Ly-alpha transits](#)
Gopal Hazra, University of Vienna

10:30 [The Sun as a testbed for understanding stellar variability and improving exoplanet confirmation and characterisation \(Invited\)](#)
Heather Cegla, University of Warwick

11:00 Coffee Break

11:30 [High-resolution spectroscopic follow-up of known exoplanet-hosts and candidates: star-planet connection](#)
Edita Stonkute, Vilnius University

11:45 [Studying and finding planets via star-planet interactions](#)
Robert Kavanagh, ASTRON

Ionospheres, magnetospheres, plasma environment

12:00 [Investigating the influence of the 2007 Martian global dust storm on the bow shock and induced magnetospheric boundary](#)
Catherine Regan, University College London

12:15 [The Implications of Electrical Conductivity Models of Uranus and Neptune](#)
Deniz Soyuer, University of Zurich

12:30 [Degenerate induced magnetospheres: from Venus and Mars to exoplanets](#)
Stas Barabash, Swedish Institute of Space Physics

12:45 [Investigating the role of crustal magnetic fields on Mars' ionospheric dynamics with MARSIS-Mars Express](#)
Dikshita Meggi, University of Leicester

13:00 Lunch

Habitability & exobiology

- 14:00 Life and habitability (Invited)
Charles Cockell, U. Edinburg
- 14:30 [Inward transport of comets as a source of habitable zone dust](#)
Jessica Rigley, University of Cambridge
- 14:45 [Relevance of initial radioactive heat budgets and the loss of primordial atmospheres for the evolution of Earth-like habitats](#)
Helmut Lammer, Space Research Institute
- 15:00 [Extraterrestrial life may be relatively common but oh so difficult to detect!](#)
Frances Westall, CNRS-Centre de Biophysique Moléculaire
- 15:15 [Studying the impact of cosmic rays on the atmosphere of TRAPPIST-1e with the model suite INCREASE](#)
Konstantin Herbst, Christian-Albrechts-Universität zu Kiel
- 15:30 [The effect of galactic kinematics on exoplanet systems and their potential habitability](#)
Scarlett Royle, Liverpool John Moores University
- 15:45 Posters
- 16:00 Coffee Break
- 16:30 Poster session
- 18:00 End of Day 2

Wednesday 22 March

Time (CET)

09:00 Synergies/Recap

Atmospheres (I)

09:15 [Exoplanet atmospheres from space: From the era of HST and Spitzer to the era JWST and Ariel \(Invited\)](#)
Quentin Changeat, ESA

09:45 [Results from the JWST Transiting Exoplanet Community Early Release Science Program](#)
Nicolas Cruzet, Leiden University

10:00 [Planetary Atmosphere Model Constraints and Lessons from JWST Transiting Exoplanet ERS observations](#)
Jayesh Goyal, NISER

10:15 [Characterising exoplanetary atmospheres with the CRIRES+ instrument on VLT](#)
Linn Boldt-Christmas, Uppsala University

10:30 [Detection of Barium in the atmospheres of the ultra-hot gas giants WASP-76b and WASP-121b](#)
Tomás Azevedo Silva, IA - Inst. de Astrofísica e Ciências do Espaço

10:45 [Searching different molecules on JWST's WASP-39b data via CC](#)
Emma Esparza-Borges, Instituto de Astrofísica de Canarias (IAC)

11:00 Coffee Break

Atmospheres (II)

11:30 [From Titan to hot super-Earths : Building a HCN vertical distribution reference for hot super-Earths](#)
Miriam Rengel, Max-Planck-Institut für Sonnensystemforschung

11:45 [Venus as a natural laboratory to infer observational prospects of close-in-orbit rocky exoplanets with a 3D model](#)
Gabriella Gilli, Instituto de Astrofísica de Andalucía (IAA-CSIC)

12:00 ['Modeling microscopes' and 'macroscopic parameterizations' for planetary atmospheres: lessons from solar system studies and challenges for exoplanets](#)
Aymeric Spiga, LMD / Sorbonne Université

12:15 [The Pursuit of a Meticulous Chemical Survey of Atmospheres](#)
Billy Edwards, SRON

12:30 [Storms and convection formation on \(Exo\)Neptune revealed by a cloud resolving model](#)
Noé Clément, Laboratoire d'Astrophysique de Bordeaux

12:45 [Modeling the atmosphere of Hot Jupiter using the generic Planetary Climate Model: The impact of clouds on atmospheric dynamics and observables](#)
Lucas Teinturier, LESIA/LMD

13:00 Lunch

14:00 [Variabilities of clouds and chemistry in the Venus atmosphere](#)
Wencheng Shao, Technical University of Denmark

14:15 [On biosignatures and tracers of life](#)
Inge Loes ten Kate, Utrecht University

14:30 [Planetary Atmospheres: Solar System / Exoplanet Connections \(Invited\)](#)
Jonathan Fortney, UCSC

15:00 End of Day 3

17:00 **Guided Visit and Conference Dinner - Programme here**

Thursday 23 March

Time (CET)

09:30 Synergies/Recap

Atmospheres (III)

09:45 [Impacts of Cosmic Dust in the Atmospheres of Mars and Venus \(Invited\)](#)
John Plane, U. Leeds

10:15 [The Era of Non-Transiting Habitable Zone Terrestrial Planets Around M-dwarfs](#)
Ravi Koppurapu, NASA Goddard Space Flight Center

10:30 [Post-formation H-He envelopes in super-Earths](#)
Marit Mol Lous, University of Zurich / University of Bern

10:45 [Linking the atmospheric composition of giant planets to their native disc chemistry](#)
Elenia Pacetti, INAF - IAPS

11:00 Coffee Break

11:30 [Synergies between Venus and exo-Venus like worlds](#)
Michael Way, NASA Goddard Institute for Space Studies

11:45 [The curious case of high-metallicity and high C/O atmosphere of the hot Jupiter tau Bootis b](#)
Vatsal Panwar, University of Warwick

12:00 [Observations and modeling of Jupiter's atmospheric composition and dynamics in preparation of the JUICE mission](#)
Thibault Cavalié, Laboratoire d'Astrophysique de Bordeaux

12:15 [Towards a new era in giant exoplanet characterisation](#)
Simon Müller, University of Zürich

12:30 [Searching for signatures of X-ray induced chemistry in the spectra of exoplanetary atmospheres](#)
Daniele Locci, INAF-OAPa

12:45 [The spectral history of exoplanet atmospheres due to extreme escape,](#)
Amy Louca, Leiden Observatory

13:00 Lunch

Surface geological & geophysical processes

14:00 [Vertical distribution of near-surface water vapor on Mars](#)
Elise Wright Knutsen, Université Paris-Saclay, CNRS

14:15 [Redistribution of radiogenic heat sources and volatiles from mantle to crust is controlled by planet size](#)
Julia M. Schmidt, Freie Universität Berlin

14:30 [Hemispheric tectonics and magma oceanography of ultrashort period rocky exoplanets](#)
Tim Lichtenberg, University of Groningen

- 14:45 [Physics of plasma–surface–exosphere–dust coupling at the lunar surface for future exploration programmes](#)
Yoshifumi Futaana, Swedish Institute of Space Physics
- 15:00 [Potential long-term presence of liquid water on exomoons orbiting free-floating planets](#)
Giulia Roccetti, European Southern Observatory (ESO)
- 15:15 [Terrestrial Planet Atmospheres are Connected to Their Interiors \(Invited\)](#)
Laura Schaefer, Stanford University
- 15:45 Posters

16:00 Coffee Break

16:30 Poster session

18:00 End of Day 4

Friday 24 March

Time (CET)

09:00 Synergies/Recap

Interior structure & processes

09:15 [Origin and Interiors of Giant Planets: The Solar System and Beyond \(Invited\)](#)
Ravit Helled, University of Zurich

09:45 [Empirical Structure Models of Uranus and Neptune](#)
Benno Neuenschwander, University of Zurich

10:00 [Interior of Jupiter and new equations of state: what consequences for exoplanets?](#)
Saburo Howard, Université Côte d'Azur, CNRS

10:15 [Inhomogeneous interior models for Jupiter and Exoplanets](#)
Yamila Miguel, Leiden Observatory/SRON

10:30 [Diverse interior and surface evolution paths of rocky planets \(Invited\)](#)
Lena Noack, Freie Universität Berlin

11:00 Coffee Break

11:30 [Investigating Enceladus' plumes dynamics through laboratory experiments](#)
Fabrizio Giordano, Delft University of Technology

11:45 [Adding Context to the Interior Structures of Jupiter and Saturn with the Bulk Compositions of Cool, Giant Exoplanets](#)
Paul Dalba, University of California Santa Cruz

Future missions

12:00 [JUICE \(Jupiter Icy Moon Explorer\): status report](#)
Olivier Witasse, ESA

12:15 [The LIFE initiative - atmospheric characterization of terrestrial exoplanets in the mid-infrared with a large space-based nulling interferometer](#)
Sascha Quanz, ETH Zurich

12:30 [Bio Inspired Exploration Robot for Enceladus](#)
Tom Mooijman, TU Delft

12:45 **Concluding remarks**

13:15 End of Symposium