

PLATO Conference 2021 programme

Monday 11 October

Time (CEST)	Title	Speaker	Affiliation
PLATO Mission			
14:00	Welcome and introduction		
14:10	The PLATO mission: Definition and status	PLATO Team members	
15:30	Coffee Break		
PLATO skyfields and PIC			
15:45	The PLATO Input Catalogue and Sky field selection	Giampaolo Piotto	Università degli Studi di Padova
16:15	The TESS Input Catalog and Lessons For PLATO (Invited)	Joshua Pepper	Lehigh University
16:45	CARMENES and the Frontiers of High-Resolution Spectroscopy for M dwarfs: Fundamental Stellar Parameters and Chemical Abundances	Yutong Shan	University of Göttingen
17:00	Discussion		
17:30	Coffee Break		
Planetary structure, composition, evolution and architecture of planetary systems (i)			
17:45	New insights into Super-Earth interiors (Invited)	Caroline Dorn	University of Zurich
18:15	Characterisation of the interior structures and atmospheres of multiplanetary systems.	Lorena Acuña	LAM
18:30	On the origin of the radius valley: formation and evolution	Christoph Mordasini	University of Bern
18:45	Exploring the Nu2 Lupi system with CHEOPS	Laetitia Delrez	University of Liege
19:00	Transit-Radial Velocity synergy to unveil the young exoplanet population and study the evolution of planetary systems	Serena Benatti	INAF - Astronomical Observatory of Palermo
19:15	End of Day 1		

Tuesday 12 October

Time (CEST)	Title	Speaker	Affiliation
Planetary structure, composition, evolution and architecture of planetary systems (ii)			
14:00	Invited talk	Jacques Laskar	Observatoire de Paris
14:30	Correlations in Planetary System Architecture	Lokesh Mishra	University of Geneva and Bern
14:45	Extreme exoplanet obliquities due to the tidal migration of unseen moons	Melaine Saillenfest	IMCCE, Observatoire de Paris
15:00	Chemical abundances of stars and their impact on the interior structure of rocky planets (Invited)	Natalie Hinkel	Southwest Research Institute
15:30	Coffee Break		
15:45	Unveiling the atmospheric evolution of exoplanets	Andrea Bonfanti	ÖAW - Austrian Academy of Sciences
16:00	Poster pitch presentations		
Asteroseismology and stellar characterisation			
16:15	Invited talk	Guy Davies	University of Birmingham
16:45	Invited talk	Sebastien Deheuvels	Institut de Recherche en Astrophysique et Planétologie
17:15	PLATO Hare-and-Hounds exercise: Modelling main sequence stars	Margarida Cunha	Instituto de Astrofísica e Ciências do Espaço
17:30	Coffee Break		
17:45	Asteroseismic probing of low mass solar-like stars throughout their evolution with new techniques	Martin Farnir	Université de Liège
18:00	Invited talk	Maria Bergemann	Max Planck Institute for Astronomy
18:30	What to expect from non-seismic stellar characterisation with PLATO lightcurves	Lisa Bugnet	Center for Computational Astrophysics, Flatiron Institute
18:45	Asteroseismic measurement of the inclination angle: characterizing exoplanetary systems	Charlotte Gehan	Max Planck Institute for Solar System Research
19:00	Simultaneous seismic modelling of multiple stars using correlated parameters	Warrick Ball	University of Birmingham
19:15	End of Day 2		

Wednesday 13 October

Time (CEST)	Title	Speaker	Affiliation
Stellar activity			
14:00	Invited talk	Raphaelle Haywood	University of Exeter
14:30	Evolution of magnetic activity on the main sequence as a function of spectral type using Kepler data	Savita Mathur	Instituto de Astrofísica de Canarias
14:45	Rotation & activity of M dwarfs: From K2 to TESS and PLATO	Beate Stelzer	Eberhard-Karls Universität Tübingen
15:00	Seismic diagnostics of stellar activity cycles	Valeriy Vasilyev	Max Planck Institute for Solar System Research
15:15	Characterizing stellar granulation with 3D stellar atmosphere models	Luisa Fernanda Rodríguez Díaz	Stellar Astrophysics Centre, Aarhus University
15:30	Coffee Break		
15:45	Poster pitch presentations		
Long-period small planets and habitability			
16:00	Invited talk	Victoria Meadows	University of Washington
16:30	Water oceans on high-density exoplanets from coupled interior-atmosphere modeling	Philipp Baumeister	DLR Berlin
16:45	Kepler's Small Planets and their Dependence on Stellar Mass	Galen Bergsten	Lunar and Planetary Laboratory, The University of Arizona
17:00	Eta-Earth Revisited: A Formula for Earth-like Habitats	Helmut Lammer	Austrian Academy of Sciences, Space Research Institute
17:15	HIP41378: a foretaste of PLATO	Alexandre Santerne	Laboratoire d'Astrophysique de Marseille
17:30	Coffee Break		
17:45	The Consequences of Binary Exoplanet Host Stars	Steve Howell	NASA
18:00	Invited talk	Laura Kreidberg	Max Planck Institute for Astronomy
18:30	Habitability and loss of hydrogen-helium atmospheres of small planets - the K dwarf advantage	Katja Poppenhäger	Leibniz Institute for Astrophysics Potsdam (AIP)
18:45	Can active plate tectonics leave an observational feature in a planet's atmosphere?	Lena Noack	Freie Universität Berlin
19:00	Stellar space weather effects on habitable-zone planets	Aline Vidotto	Trinity College Dublin & Leiden University
19:15	End of Day 3		

Thursday 14 October

Time (CEST)	Title	Speaker	Affiliation
Light Curve Analysis			
14:00	Invited talk	Juan Cabrera	DLR Berlin
14:30	An Overview of Transiting Exoplanet Detection	Andrew Vanderburg	University of Wisconsin-Madison
15:00	Alleviating the Transit Timing Variations bias in transit surveys	Adrien LELEU	Université de Genève
15:15	Automated planet validation from transit surveys - lessons from Kepler and potential for PLATO	David Armstrong	University of Warwick
15:30	Coffee Break		
15:45	SINGLETRANS, the search for single transits of small planets in light curves of space missions	Sascha Grziwa	RIU Planetary Research at the University of Cologne
16:00	Poster pitch presentations		
Advances in modelling stellar internal structure and evolution			
16:15	Invited talk	Aldo Serenelli	Institute of Space Sciences - CSIC
16:45	Lithium depletion and angular momentum transport in low-mass stars	Thibaut Dumont	University of Geneva
17:00	Impact of the transport of chemical elements on the internal structure and surface abundances of stars	Morgan Deal	Instituto de Astrofísica e Ciências do Espaço (IA)
17:15	On the Potential of the Reynolds Stress Approach to Model Convective Overshooting in Grids of Stellar Evolution Models	Friedrich Kupka	Univ. of Applied Sciences Technikum Wien
17:30	Coffee Break		
17:45	Entropy-calibrated models of solar-like stars	Federico Spada	Max Planck Institute for Solar System Research
Complementary science topics benefitting from PLATO high-precision photometry			
18:00	The PLATO Complementary Science program	Andrew Tkachenko	KU Leuven
18:30	From TESS to PLATO: A Galactic archaeology perspective	Thibault Boulet	Centro de Astrofísica da Universidade do Porto
18:45	Tracers of Exoplanet Composition	Amy Bonsor	Institute of Astronomy, University of Cambridge
19:00	Exoplanets in stellar clusters and young associations: the path-way from TESS to PLATO	Domenico Nardiello	Laboratoire d'Astrophysique de Marseille
19:15	End of Day 4		

Friday 15 October

Time (CEST)	Title	Speaker	Affiliation
Ground-based observations for the confirmation and mass determination of planets (i)			
14:00	Ground-based facilities and techniques for characterising Earth analogues	Andrew Collier-Cameron	University of St. Andrews
14:30	Extremely precise HARPS-N solar RV to overcome the challenge of stellar signal	Xavier Dumusque	University of Geneva
14:45	Confirming & detecting circumbinary planets using radial-velocities	Amaury Triaud	University of Birmingham
15:00	Stellar characterization, activity, and terrestrial planets: Results from five years of CARMENES spectroscopy	Ansgar Reiners	Institut für Astrophysik Göttingen
15:15	Stellar Companions: Hiding the Earth-sized Transiting Planets	David Ciardi	NASA Exoplanet Science Institute - Caltech/IPAC
15:30	Coffee Break		
15:45	Radial velocity follow-up of young transiting planets: promising results from selected case studies	Mario Damasso	INAF-Astrophysical Observatory of Torino
16:00	Discussion		
PLATO in the context of Kepler/K2, TESS, CHEOPS, JWST, Roman, ARIEL and large ground-based observatories			
16:30	The future of exoplanet characterisation - the European route	Ignas Snellen	Leiden Observatory
17:00	Detection and Characterization of Exoplanets Using Current and Future US Observatories	Scott Gaudi	Ohio State University
17:30	Coffee Break		
17:45	PLATO-Gaia synergy for studying transiting exoplanets	Aviad Panahi	Tel Aviv University
18:00	Optimizing Science Return from Plato's Observations of the Kepler Field	Jack Lissauer	NASA Ames
18:15	High-precision photometry of PLATO targets observed by TESS	Marco Montalto	Università di Padova
18:30	LIFE - characterizing the climates of terrestrial exoplanets in the wake of PLATO	Tim Lichtenberg	University of Oxford
18:45	Conclusions		
19:00	End of Day 5		