SPP 1992
Note: this program is preliminary and subject to last-minute change

## Tuesday, 14th March

| First Block 14:00-15:45 |  |
| :---: | :---: |
| 14:00 | Welcome |
| 14:15 | Karan Molaverdikhani "Exploring the Frontiers of Exoplanetary Science: The Era of Chemical Characterization" (Invited) |
| 15:00 | John Lee Grenfell "Numerical Studies of the Influence of time-dependent Flares on Proxima Centauri b upon Atmospheric Biosignatures" |
| 15:15 | Konstantin Herbst " INCREASE - An updated model suite to study the INfluence of Cosmic Rays on Exoplanetary AtmoSpherEs" |
| 15:30 | Andreas Bartenschlager "Investigation of the Influence of Stellar Particle Events and Galactic Cosmic Rays on the Atmosphere of TRAPPIST-1e" |
| 15:45-16:15 Coffee Break |  |
| Second Block 16:15-17:30 |  |
| 16:15 | Giulia Roccetti "Presence of liquid water during the evolution of exomoons orbiting ejected free-floating planets" |
| 16:30 | Philipp Baumeister "ExoMDN: Rapid characterization of exoplanet interiors with Mixture Density Networks" |
| 16:45 | Vincent Böning "Magnetic processes in Hot Jupiter atmospheres" |
| 17:00 | Tina Rückriemen-Bez, Ludwig Scheibe „Overview: planetarium show ‘Diversity of exoplanets'" |
| 17:30-19:30 Poster Session |  |

## Wednesday, 15th March

| First Block 09:00-10:30 |  |
| :---: | :--- |
| 09:00 | Joanna Drążkowska "Rewriting planet formation theory" (Invited) |
| $09: 45$ | Luca Delussu "The need for early and ubiquitous substructure: indications from disk <br> population synthesis" |


| 10:00 | Thomas Pfeil "New Methods for Dust Coagulation in Hydrodynamic Simulations of Protoplanetary Disks " |
| :---: | :---: |
| 10:15 | David Melon Fuksman " Turbulent heating and stability regions in radiationhydrodynamical simulations of the Vertical Shear Instability in protoplanetary disks" |
| 10:30-11:00 Coffee Break |  |
| Second Block 11:00-12:00 |  |
| 11:00 | Sz. Csizmadia "Systematic search for exoplanet phase curves in TESS data" |
| 11:15 | Anton Krieger "Feasibility of detecting and characterizing embedded low-mass planets in gaps in the VIS/NIR wavelength range" |
| 11:30 | Sandra Jeffers "RedDots: The search for our nearest exoplantary neighbours" |
| 11:45 | Florian Liebing "Inferring planetary orbits with MCMC: Best-practices to avoid common pitfalls" |
| 12:00-13:30 Lunch Break |  |
| Third Block 13:30-14:30 |  |
| 13:30 | Dhruv Muley "Three-temperature radiation hydrodynamics with PLUTO: tests and applications to protoplanetary disks" |
| 13:45 | Jingyi Mah "Forming super-Mercuries: The role of stellar abundances" |
| 14:00 | Leonard Benkendorff "Formation of Hot Jupiters in dense Star Cluster" |
| 14:15 | Alexandre Emsenhuber "How internal photoevaporation affects giant planet formation" |
| 14:30-15:00 Coffee Break |  |
| Fourth Block 15:00-16:00 |  |
| 15:00 | Jan-Vincent Harre "Examining the orbital decay targets KELT-9 b, KELT-16 b, and WASP-4 b, and the transit-timing variations of HD 97658" |
| 15:15 | Henrik Ruh "RV Precision in Ultra-cool M-dwarfs" |
| 15:30 | Gabriel-Dominique Marleau "An impossible planet, and a deuterium-burning planet: Vignettes on two exciting companions" |
| 15:45 | Eike W. Guenther "The discovery of five hot Jupiter by TESS" |
| 16:00-open end: Social event at the ESO Supernova Center in Garching, followed by Dinner |  |

Thursday, 16th March

| First Block 09:00-10:30 |  |
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| $09: 00$ | Ekatarina Ilin "How close-in planets manipulate their host stars" |
| 09:45 | Lena Noack "Induction heating of planetary interiors in white dwarf systems" |
| $10: 00$ | Flammini Dotti Francesco "Planets and star clusters: how the environment affects the <br> constituents\' dynamical evolution" |
| 10:15 | R. Sfair "Stability regions in the largest resonant chain planetary system TOI-178" |
| 10:30-11:00 Coffee Break |  |
| Second Block 11:00-12:15 | Hubert Klahr "Diversity in the appearance of planet disk interaction: 3D Radiation Hydro <br> of accreting Exoplanets in their birth nebula " |
| 11:15 | Sebastian Stammler "Using Machine Learning Techniques to estimate Disk Masses" |
| 11:30 | Sascha Grziwa "SINGELTRANS a new detection algorithm for a mono-transit survey in <br> CoRoT, Kepler, K2 and TESS light curves" |
| 11:45 | Tobias Schmidt "The potentially youngest directly imaged planet in context of the <br> inclusion of dynamic methods in Direct Imaging" |
| 12:00 | Farewell |
| Third Block 12:15-15:15 |  |
| $12: 15$ | Brainstorming-Lunch for the upcoming planetarium show |

