

SPP 1992 virtual all-hands-on-deck meeting 2021

Program - Day 1

Welcome (WebEx)

10:00-10:30 Heike Rauer Welcome & Overview SPP 1992 Activities

Session 1 (WebEx)

10:30-10:45 Sara Khalafinejad Population study of exoplanetary atmospheres using low- and high-resolution transmission spectroscopy

10:45-11:00 Dane Späth Short- and Long-Period Planets around Evolved Stars

11:00-11:15 Gabriel-Dominique Marleau Accreting planets: observable accretion tracers

11:15-11:30 Lee Grenfell Photochemical effects of high energy particles in planetary atmospheres

11:30-11:45 Katja Stock How Planetary Systems are Shaped by their Birthplace

11:45-12:00 Sascha Grziwa Single transit survey in CoRoT, Kepler, K2 and TESS light curves

Lunch Break (sci.an)

12:00-13:00

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Session 2 (WebEx)

13:00-13:15 Konstantin Herbst Revisiting Empirical Stellar Relations

13:15-13:30 Miriam Rengel Investigating physico-chemical mechanisms in (exo)planetary atmospheres and their impact on the observables

13:30-13:45 Monika Ellwarth Spatially resolved solar spectroscopy as benchmark for exoplanet observations

13:45-14:00 Enrique Sanchis Melchor Effects of tidal heating in Proxima Centauri b's thermal evolution

Coffee Break (sci.an)

14:00-14:30

Election of PhD Representatives (WebEx)

14:30-15:00

Poster Break-out Session (WebEx)

15:00-16:00

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Session 3 (WebEx)

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|-------------|---------------------------|---|
| 16:00-16:15 | Anton Krieger | Characterization of young accreting planets |
| 16:15-16:30 | Oscar Carrión González | Atmospheric characterization of directly imaged exoplanets in reflected starlight |
| 16:30-16:45 | Szilard Csizmadia | The power of wavelets in analysis of transit and phase curves in presence of stellar variability and instrumental noise |
| 16:45-17:00 | Tobias Moldenhauer | The Influence of Core Mass and Headwind on the Recycling of Planetary Proto-Atmospheres |

Wrap-up (WebEx)

17:00-17:15

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Keynote (WebEx)

09:00-09:30 Laura Kreidberg Planets are places: Characterization of other worlds in the 2020s and beyond

Session 4 (WebEx)

09:30-09:45 Maxwell Cai The natural selection process of planetary systems

09:45-10:00 Francesco Flammini Dotti The long-term evolution of Solar-like systems in star clusters

Coffee Break (sci.an)

10:00-10:30

Presentation of SPP 1992 Outreach team (WebEx)

10:30-11:00

Poster Break-out Session (WebEx)

11:00-12:00

Lunch Break (sci.an)

12:00-13:00

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Session 5 (WebEx)

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|-------------|------------------|--|
| 13:00-13:15 | Wieland Dietrich | Diversity of Hot Jupiter atmospheres |
| 13:15-13:30 | Moritz Lietzow | The potential of polarimetry to characterize clouds in exoplanetary atmospheres |
| 13:30-13:45 | Cyrill Gapp | Deciphering Jupiter's atmospheric chemistry as a benchmark for extrasolar gas giants using Herschel/PACS |
| 13:45-14:00 | Florian Liebing | A robust, empirical approach to determine line-by-line convective blueshift strengths from F to M dwarfs |

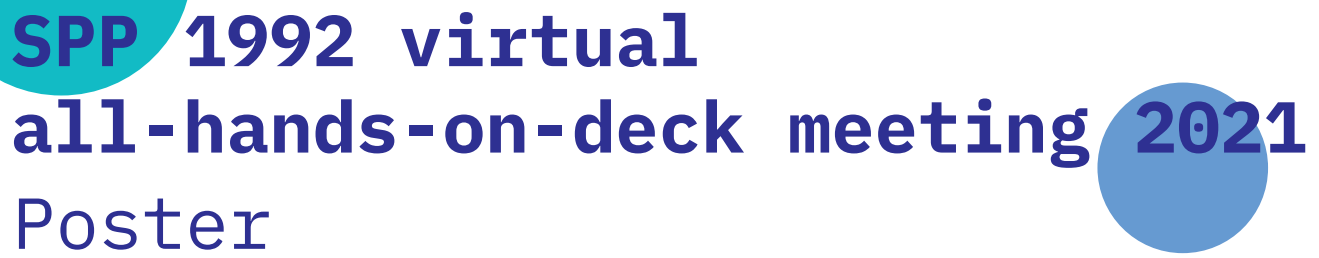
Wrap-up & Goodbye (WebEx)

14:00-14:15



SPP 1992 virtual all-hands-on-deck meeting 2021 Poster

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|-----------------------|--|
| Richard Bischoff | Follow-up observations of YETI planet candidates |
| Eike Guenther | The role of flares for the erosion of planetary atmospheres |
| Jan-Vincent Harre | Tidal orbital decay of Hot Jupiters |
| Réne Heller | New predictions of PLATO's yield of Earth-sized transiting planets in the habitable zone of Sun-like stars |
| Thijs Kouwenhoven | Planetary systems in star clusters |
| Kristine Lam | GJ 367b: A dense ultra-short period sub-Earth planet transiting a nearby red dwarf star |
| Thomas Pfeil | Dust evolution for hydrodynamics simulations of protoplanetary disks |
| Anna Julia Poser | Tackling the radius inflation of hot Jupiters: Long-term radius evolution of cloudy exoplanets |
| Hendrik Schmerling | Modeling radiation driven loss of primary atmospheres on super earth sized planets |
| Rainer Spurzem | Planetary Systems in Star Clusters |
| Michael Weber | Simulations of a giant planet embedded in a photoevaporating disc |



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Poster

Vera Wolthoff

Characterizing and understanding the planet population
around Intermediate-Mass Stars

Fabian
Wunderlich

Time dependent effects of stellar flares on atmospheric
chemistry of Proxima Centauri b