

IPA Colloquium HS24

Report of Contributions

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Diversity of super-Earths & mini-Neptunes

Thursday, 5 December 2024 12:15 (45 minutes)

The increasing number of newly discovered extrasolar planets reveal a remarkable diversity in planet sizes and mean densities. Among the most frequently occurring planets are super-Earths and mini-Neptunes, whose interiors are largely unknown. Detailed interior characterization is challenging since data are few and have significant uncertainties.

Given data of mass and radius alone, many interiors can be modelled and it is key to make additional constraints available. I will discuss a range of additional constraints that help to improve interior estimates and I will highlight main achievements in finding exotic and less exotic worlds.

Presenter: Prof. DORN, Caroline (ETH Zürich)

Session Classification: Session