

Geowissenschaftliches Kolloquium

InSights into the interior dynamics of Mars from geodynamic models and observations

Thursday, February 25, 2021. Discussion from 17:00 h

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Large-scale numerical simulations are often used to model the dynamics inside rocky planets and moons. Combined with constraints derived from mission data and laboratory experiments, these models help us to improve our understanding of the thermochemical history of a planetary body. In this presentation, I will focus on the thermal evolution and present-day state of the interior of Mars. Results from numerical thermal evolution models will be compared with available constraints and discussed in the context of NASA's InSight mission.



Ana-Catalina (Ina) Plesa received her PhD from the University of Münster in 2014. She is researcher at the DLR Institute of Planetary Research, where since 2019, she leads a junior research group that investigates the thermochemical history of Mars and Venus. Her research focuses on the evolution and interior dynamics of terrestrial planets, combining numerical modeling and planetary mission data.

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