



Einladung

zu dem am Donnerstag, dem 15. April 2021, ab 14 Uhr
als Zoom-Videokonferenz

stattfindenden öffentlichen

wissenschaftlichen Habilitationsvortrag

I. Physikalisches Institut
(Fach: Theoretische Physik)

von

Dr. Daniel Seifried

über das Thema

Detecting exoplanets: the search for a second Earth

In the last decade the effort to find exoplanets, i.e. planets orbiting around a star other than our own Sun, has increased significantly. In particular the search for a so-called „second Earth“ has achieved great attention in both the scientific community and the public. These exoplanets are defined as rocky planets with properties comparable to our own Earth in terms of their mass and orbital period. In addition, a second Earth must be located in the habitable zone of its host star and would thus be the best candidate for life to develop. In this talk I will give an overview of the current state of the search for exoplanets and briefly present the basics of some selected and frequently used techniques to detect exoplanets. I will also discuss challenges of these methods to detect earth-like exoplanets in the habitable zone around stars. Finally, I will shed light on the current standing of the search for a second Earth and present the latest detections of Earth-like exoplanets e.g. obtained with the Kepler space telescope.

P. van Loosdrecht
Dekan