International Max Planck Research School for Astronomy & Cosmic Physics at the University of Heidelberg (IMPRS-HD)\* Heidelberg Summer School 2020 August 31 – September 4

# **Planet formation in protoplanetary disks**



**IMPRS** Heidelberg invites early-career scientists to its 15th summer school. The school will focus on the most relevant aspects of planet formation, including the physics of radiation transfer, hydrodynamics and planet-disk interactions, observations of protoplanetary disks ranging from the near-infrared to radio wavelengths and recent achievements in exoplanet astronomy.

Five distinguished invited lecturers, along with an assortment of local experts, will provide an introduction to the field. In addition to the formal lectures, there will be hands-on sessions to perform simulations on hydrodynamic and radiation transfer. We will pro-vide career discussions, and a variety of social activities.

Topics that are covered include: planet formation models, Monte Carlo radiation transfer, ALMA observations, hydrodynamics using the FARGO3D and PLUTO codes and models of Exoplanets atmosphere.

Credit: ALMA (ESO/NAOJ/NRAO), S. Andrews et al.; NRAO/AUI/NSF, S. Dagnello

## **Invited lecturers:**

Pablo Benítez Llambay (Niels Bohr Institute, U. of Copenhagen)

**Cornelis P. Dullemond (U. of Heidelberg)** Michiel Lambrechts (Lund Observatory) Yamila Miguel (Leiden Observatory) **Catherine Walsh** (Leeds University)







Credit: ESO/H. Avenhaus et al./E. Sissa et al./DARTT-S and SHINE collaborations

### **Deadline for registration is** June 1, 2020

Information & registration: www.imprs-hd.mpg.de/Summer-School Contact: imprs-hd@mpia.de





\*) IMPRS-HD is an independent part of the Heidelberg Graduate School for Physics, HGSFP

