

Stellar Ecosystems

IMPRS-HD Summer School Sep 13-17, 2021

Monday Sep 13

- 09:00 – 09:30 Welcome and Logistical Information (SOC and LOC)
- 09:30 – 10:15 Overview and Introduction of “Stellar Ecosystems” (SOC)
- 10:45 – 12:00 The Physics of Stellar Evolution (Achim Weiß)
- 12:30 – 14:00 MESA Installation Q&A (Fabian Schneider)
- 14:00 – 15:15 Details of Stellar Evolution (Achim Weiß)
- 15:30 – 17:00 Hands-On I: MESA (Fabian Schneider)

Tuesday Sep 14

- 09:00 – 10:15 Binary Populations I (Rob Izzard)
- 10:45 – 12:00 Binary Populations II (Rob Izzard)
- 12:00 – 13:30 Informal Lunch Meeting
- 13:30 – 14:15 Planet Formation (Mario Flock)
- 14:15 – 15:00 Neutron Star Mergers (Andreas Bauswein)
- 15:30 – 17:00 Hands-On II: Gaia (Stefan Jordan)

Wednesday Sep 15

- 09:00 – 10:15 Stellar Activity (Beate Stelzer)
- 10:45 – 12:00 The Impact of Activity on Planetary Atmospheres (Beate Stelzer)
- 12:00 – 13:30 Informal Lunch Meeting
- 13:30 – 15:00 Hands-On III: MESA (Fabian Schneider)
- 15:30 – 17:00 Hands-On IV: Gaia (Stefan Jordan)

Thursday Sep 16

- 09:00 – 10:15 Asteroseismology I (Conny Aerts)
- 10:45 – 12:00 Asteroseismology II (Conny Aerts)
- 12:00 – 13:30 Informal Lunch Meeting
- 13:30 – 14:15 Star-Forming Regions in Nearby Galaxies (Kathryn Kreckel)
- 14:15 – 15:00 ISM Simulations (Philipp Girichidis)
- 15:30 – 17:00 Hands-On V: MESA (Fabian Schneider)

Friday Sep 17

- 09:00 – 10:15 Stellar Winds I (Leen Decin)
- 10:45 – 12:00 Stellar Winds II (Leen Decin)
- 12:00 – 13:30 Informal Lunch Meeting
- 13:30 – 14:15 Wolf-Rayet Stars (Andreas Sander)
- 14:15 – 15:00 Final Remarks and Farewell (SOC and LOC)