

# Ninth BCool meeting schedule

12<sup>th</sup>-14<sup>th</sup> April 2021

All times are Central European (CEST)

Talks are 20 minutes with 5 minutes for questions

## Monday 12<sup>th</sup> April: Stellar magnetism

10:00–10:05 Welcome

10:05–10:30 **Emma Brown** - A rapid, solar-like magnetic cycle in the late-F star HD 75332

10:30–10:55 **Lisa Theres Lehmann** - How can we detect solar-like magnetic cycles with the Zeeman-Doppler-Imaging (ZDI)?

10:55–11:20 **Axel Hahlin** - Magnetic fields of the eclipsing binary UV Psc

11:20–11:45 **Bonnie Zaire** - What can we learn from the magnetic morphology achieved in numerical simulations?

11:45-12:15 Coffee break at wonder.me

12:15–12:40 **Sudeshna Boro Saikia** - The curious case of Kappa Ceti

12:40–13:05 **Patrick Gaulme** - Understanding the magnetic activity of red-giant stars

13:05–13:30 **Julien Morin** - Exploring the magnetism of M dwarfs with SPIRou: first results

13:30–13:55 **Alexis Lavail** - CRIRES+ at the Very Large Telescope: what to expect?

13:55-14:00 **Dag Evenberget** - Probing the effect of magnetic geometry and field strength and on stellar spin-down with MHD simulations

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## Tuesday 13<sup>th</sup> April: Stellar winds and environments

10:00–10:25 **Joseph Callingham** - Radio exoplanets and stars at low-frequencies

10:25–10:50 **Robert Kavanagh** - Planet-induced radio emission from the coronae of M dwarfs

10:50–11:15 **Adam Finley** - On the Gap Between MHD Stellar Wind Torques and Those Required by Rotation-Evolution Models

11:15–11:35 Coffee break (1) at wonder.me

11:35–12:00 **Donna Rodgers-Lee** - The intensity of energetic particles at the evolving Earth

12:00–12:25 **Lewis Ireland** - Magnetic Braking of Accreting T Tauri Stars: Effects of Mass Accretion Rate, Rotation, and Dipolar Field Strength

12:25–12:50 **Amanda Mesquita** - Galactic cosmic ray propagation through M dwarf astrospheres

12:50–13:10 Coffee break (2) at wonder.me

13:10–13:35 **Gopal Hazra** - Effect of Stellar Coronal Mass Ejection (CME) and Flare on the atmosphere of HD189733b and its transit signature

13:35–14:00 **Moira Jardine** - Energetic flares but few CMEs in the lowest mass stars - the role of helicity

14:00–14:25 **Jennifer Greco** - Deriving Parameters of Ultracool Dwarfs Using High-Resolution Spectroscopy

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## Wednesday 14<sup>th</sup> April: Brightness variability and contrast

10:00–10:25 **Sami Solanki** - An introduction to the research done in the solar department of the MPS

10:25–10:50 **Nina-Elisabeth Nemec** - Forward modelling of stellar surface magnetic fields and brightness variations

10:50–11:15 **Tanayveer Singh Bhatia** - Small-scale Dynamo in Cool Main-Sequence Stars: Effect on Stratification, Convection and Bolometric Intensity

11:15–11:40 **Mayukh Panja** - Starspots: Realistic rad-MHD simulations and their impact on stellar radial velocity

11:40–12:10 Coffee break at wonder.me

12:10–12:35 **Timo Reinhold** - Rotation period detectability of solar-like stars - Consequences for recent studies

12:35–13:00 **Nadiia Kostogryz** - Impact of surface magnetic activity on stellar limb darkening

13:00–13:25 **Veronika Witzke** - Effect of metallicity on magnetic features in Sun-like stars

13:25–13:50 **Victor See** - How does metallicity affect the overall magnetic activity level of low-mass stars?

13:50-14:00 Wrap up