

Programme for 10th BCool meeting at MPS

19 – 20 April 2023

Wednesday 19 April 2023

Talks are 15 mins + 5 for questions

09:30 – 09:40	Welcome and Logistics	Laurent Gizon and Sandra Jeffers
09:40 – 10:00	Robert Cameron	Placing the Sun in the stellar context
10:00 – 10:20	Manfred Küker	Dynamos in K dwarfs
10:20 – 10:40	Tanayveer Singh Bhatia	Small-scale dynamo in cool stars: field distribution and changes in lower photospheres of F3V to M0V stars
10:40 – 11:00	Moira Jardine	Not raining but pouring: downpours in a young Sun

11:00 – 11:30

--- Morning Coffee ---

11:30 – 11:50	Markus Strickert	Exploring Coronal Mass Ejections numerically: Insights into Coupling ZDI Magnetic Fields and Stellar eruptions
11:50 – 12:10	Adam Finley	Revisiting the long-term evolution of the Sun's magnetic field: Solar wind sources and coronal rotation
12:10 – 12:30	Dag Evensberget	Do Solar-type stars spin down as solid bodies? A perspective from wind modelling.
12:30 – 12:45	Discussion	

12:45 – 14:00

--- Lunch – MPS Kantine ---

14:00 – 14:20	Alexis Lavail	CRIRES+, a pretty (B)Cool spectropolarimeter
14:20 – 14:40	Victor See	How does metallicity affect stellar activity and rotation?
14:40 – 15:00	Nadiia Kostogryz	Magnetic field affects stellar limb darkening

15:00 – 15:30

--- Afternoon Tea ---

15:30 – 15:50	Valeriy Vasilyev	Superflare census on solar-like stars
15:50 – 16:10	Samarth Kashyap	Modeling the effect of stellar activity on seismic observables: the solar case
16:10 – 16:30	Oleg Kochukhov	Surface mapping of small-scale magnetic field distribution in an active cool star
16:30 – 17:00	Discussion	

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09:30 – 09:50	Renada Konstantinova-Antova	The magnetic fields in AGB and post-AGB stars - a long-term study
09:50 – 10:10	Arturo Lopez Ariste	Betelgeuse: Imaging convection and magnetic fields in red supergiants with spectropolarimetry
10:10 – 10:30	James Barron	Magnetic fields of classical Cepheids
10:30 – 10:50	Florian Liebing	Convective blueshift among evolved stars

10:50 – 11:20

--- Morning Coffee ---

11:20 – 11:40	Patrick Gaulme	Impact of tidal interactions on red-giant magnetism
11:40 – 12:00	Robert Kavanagh	Hunting for exoplanets via star-planet interactions
12:00 – 12:20	Timothy Wing Hei Yiu	Radio emission as stellar activity indicator
12:20 – 12:45	Discussion	

12:45 – 14:00

--- Lunch – MPS kantine ---

14:00 – 14:20	Clara Brasseur	The Radio Corona of AB Dor
14:20 – 14:40	Sanne Bloor	The radio star AU Microscopii: Hunting for signatures of star-planet interaction in the presence of stellar activity
14:40 – 15:00	Juan Bautista Climent Oliver	Evidence of a radiation belt around a brown dwarf

15:00 – 15:30

--- Afternoon Tea ---

15:30 – 15:50	Stefano Bellotti	Monitoring the large-scale magnetic field for active M dwarfs with SPIRou, ESPaDOnS and Narval: the case of AD Leo, CN Leo, DS Leo and EV Lac
15:50 – 16:10	Julien Morin	Molecular signatures in high-resolution spectra of M dwarfs
16:10 – 16:30	Lisa Theres Lehmann	Strong magnetic fields of slowly rotating M dwarfs unveiled with SPIRou
16:30 – 16:50	Axel Hahlin	Magnetic fields on the eclipsing binary CU Cnc
16:50 – 17:00	Wrap up and farewell	