

# Unravelling the magnetic fields of (sub)-stellar systems

Splinter session schedule for CoolStars 22 – Monday 24th June 2024

## I – Magnetic fields of cool stars

- 14:00 – 14:25 **Methods for inferring magnetic fields on cool stars** (*invited*)  
Moira Jardine (University of St Andrews, Scotland)
- 14:25 – 14:35 **Non-ideal MHD effects in MHD wave-driven stellar winds from the Sun and cool stars**  
Takeru K. Suzuki (The University of Tokyo, Japan)
- 14:35 – 14:45 **1–105 GHz radio observations of the magnetically active M dwarf UV Ceti**  
Kathryn Plant (Jet Propulsion Laboratory, Caltech, USA)
- 14:45 – 14:55 **Hot Jupiters and stellar eruptions: planet-induced flares in young exoplanetary systems**  
Ekaterina Ilin (ASTRON, the Netherlands)
- 14:55 – 15:05 **Quantifying the energy and temporal phase of star-planet magnetic interactions: application to a new dense observational campaign of HD 189733**  
Antoine Strugarek (CEA, Dap-AIM, France)

*Coffee break and posters (15:05 – 15:20)*

## II – Magnetic fields of brown dwarfs and exoplanets

- 15:20 – 15:45 **Methods for inferring magnetic fields on brown dwarfs and exoplanets** (*invited*)  
Melodie Kao (Lowell Observatory, USA)
- 15:45 – 15:55 **The rotation-dependence of the X-ray/radio dichotomy observed in ultracool dwarfs**  
Enza Magaudda (Institut für Astronomie & Astrophysik - Eberhard Karls Universität Tübingen, Germany)
- 15:55 – 16:05 **Exploring the magnetic and cloudy properties of the M8.5 dwarf LSR J1835+3259 via low resolution spectropolarimetry and high-resolution spectroscopy in the optical and infrared**  
Paulo Miles-Páez (Centro de Astrobiología, CSIC-INTA, Spain)
- 16:05 – 16:15 **JWST observations of aurora on a warm brown dwarf**  
Eleanor Pike (University of Sheffield, UK)
- 16:15 – 16:25 **Magnetic star-planet interactions and planetary atmosphere erosion**  
Florian Driessen (Leiden Observatory, the Netherlands)

*Discussion: Addressing challenges in the field (16:25 – 17:00)*