

MIST Open Session Schedule

Talks

Tuesday 09h00-10h30

09h00: Modelling October 2024 extreme solar storm and radiation belt flux drop-out events (Yihui Tong)

09h15: Diffusion Coefficients for Resonant Relativistic Wave-Particle Interactions Using the PIRAN Code (Oliver Allanson)

09h30: ULF wave - cold plasma coupling and the impacts on radiation belt dynamics (Jasmine Kaur Sandhu)

09h45: The role of the plasmopause in the dynamics of the outer radiation belt (Johannes Sadler)

10h00: Distribution of Electromagnetic Ion Cyclotron (EMIC) waves in Jupiter's magnetosphere (Suman Chakraborty)

10h15: Kinetic energy variations within drift orbits: a study in UBK space (Tom Daggitt)

Tuesday 14h15-15h45

14h15: Do Solar Energetic Particle events impact lower-atmospheric temperatures on Mars? (Lana Williams)

14h30: Towards predicting the variability (weather) of the mesosphere and lower thermosphere (Felix Sainsbury-Martinez)

14h45: How Broad Are the Polar Cusps? Insights from Cluster-EISCAT Svalbard Radar Conjugate Observations (Fiona M. Ball)

15h00: Neutral Temperature Changes in Fine Scale Aurora (Kate Barton)

15h15: Plasma temperature variability during the 2025 and 2026 DRIIVE/FINESSE Campaigns (Ian McCrea)

15h30: Variability of ionospheric electron density: a comparison between EISCAT and WACCM-D (Jade Reidy)

Tuesday 16h15-17h45

16h15: Extending single-spacecraft techniques to investigate shock nonstationarity (Hannah Cornfield)

16h30: Characterising the Difference Between Empirical and Dipole Magnetic Field Approximations Under Varying Geomagnetic Conditions (Brad Ramsey)

16h45: Adapted empirical modelling of near-Sun solar-wind speeds for use in ensemble forecasts (Nathaniel Edward-Inatimi)

17h00: Modelling ULF Waves in Plasmaspheric Plumes (Jimmy Brooks)

17h15: The Effects of Statistical Uncertainty in Propagating Solar Wind measurements from L1 to the Earth's Bow Shock (Neil Rogers)

17h30: Preserving the Slough ionospheric data archive (Christopher Scott)

Posters

- Energetic Particle Observations with SIXS During BepiColombo's Sixth Mercury Flyby (Liam Edwards)
- Influence of Energetic Particle Precipitation on Antarctic Sea Ice During Spring: Based on WACCM-D Simulations (Shujie Chang)
- Strong correlation between polar cap auroras and nonlobe reconnection under northward IMF (Nawapat Kaweeyanun)
- AMPERE observations of the asymmetry towards stronger Birkeland currents in the Northern Hemisphere (John C Coxon)
- Vertical Coupling in the High-latitude Ionosphere-thermosphere during Geomagnetic Disturbances: Insights from Scandinavian Multi-Instrument Observations (Subir Mandal)
- Meso-scale variability in the high latitude ionosphere - observations from the DRIIVE winter campaign (Andrew J. Kavanagh)
- Simulating extreme events in the radiation belts: Part 2 (Sarah Glauert)
- ESA Swarm products, tools, and services supporting open science (Ashley Smith)
- Simulating extreme events in the radiation belts: Part I (Ravindra Desai)
- Simulating Exoplanet Magnetospheres (David Bewicke)
- TOMIRIS: A Real-Time Data Assimilation IRI (Benjamin Reid)