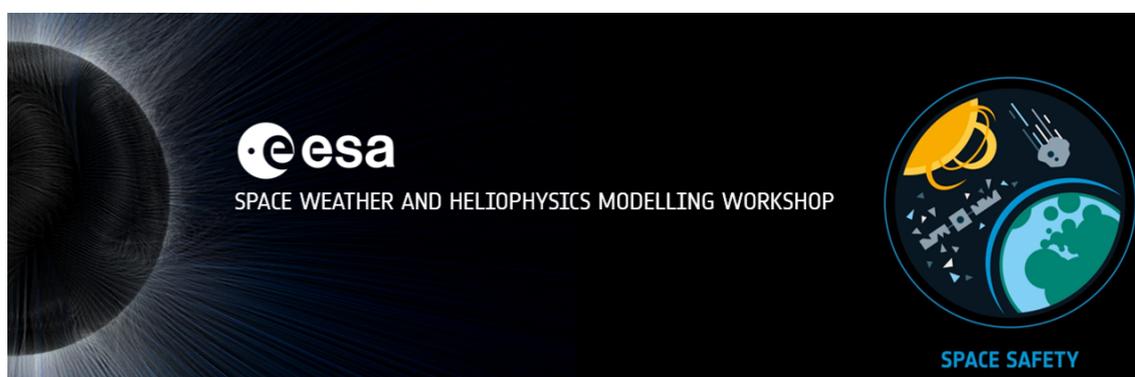**Session Program**

7–9 Apr 2026

Space Weather and Heliophysics Modelling Workshop

Earth's Space Weather Environment

ESOC Press Centre
Robert-Bosch-Str. 5 64293 Darmstadt Germany

Wednesday 8 April

11:45

Earth's Space Weather Environment
Session | **Location:** ESOC Press Centre, Robert-Bosch-Str. 5 64293 Darmstadt Germany

11:45–12:00
THERION Retrieve Thermospheric parameters at mid and equatorial latitudes

Speaker
Loredana Perrone

12:00–12:15
Physics–Informed Machine Learning Modeling of Plasmaspheric Cold Electron Density

Speaker
Sadaf Shahsavani

12:15–12:30   Mapping the Magnetosphere with Generative AI

Speaker
Stefano Markidis

12:30–12:45
Perspective for Magnetospheric Modelling with Multi-Moment Fluid Codes

Speaker
Simon Lautenbach

12:45–13:00
RECENT DEVELOPMENTS IN THE VERSATILE ELECTRON RADIATION BELT (VERB) CODE AND DATA ASSIMILATION APPLICATIONS

Speaker
Dedong Wang

13:00