



# European Space Weather Week 2025 - cloned July 3

## Tuesday, 4 November 2025

### SWR5 – Space Climate: Orals - Part 1 (10:45 - 12:15)

-Conveners: Barbara Perri; Kalevi Mursula; Claudio Corti; Ilya Usoskin

| time  | [id] title                                                                                                    | presenter                                    |
|-------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 10:45 | [79] The Solar leptocline, a needle in a haystack                                                             | Dr KILCIK, Ali<br>Prof. ROZELOT, JEAN-PIERRE |
| 11:00 | [309] Decadal-Scale Forecasting of Solar and Geomagnetic Activity                                             | LEAMON, Robert                               |
| 11:15 | [341] Forecast of solar activity based on mean-field dynamo model and neural network                          | KUZANYAN, 2)Kirill                           |
| 11:30 | [334] Polar faculae and their relationship to the solar cycle                                                 | RECHE, Antonio                               |
| 11:45 | [13] Investigating Nonlinear Quenching Effects on Polar Field Buildup Using Physics-Informed Neural Networks  | J ATHALATHIL, Jithu                          |
| 12:00 | [120] Can meridional flow variation explain the observed rising/declining phase asymmetry in the solar cycle? | HAZRA, Soumitra                              |

### SWR5 – Space Climate: Orals - Part 2 (14:45 - 16:00)

-Conveners: Barbara Perri; Kalevi Mursula; Claudio Corti; Ilya Usoskin

| time  | [id] title                                                                                    | presenter            |
|-------|-----------------------------------------------------------------------------------------------|----------------------|
| 14:45 | [347] Solar Cycle Modulation of Total Luminosity                                              | VIEIRA, Luis Eduardo |
| 15:00 | [16] Once is not enough: why high-cadence MgII is important                                   | SNOW, Martin         |
| 15:15 | [284] Memory and Scale-Invariance in Solar Flares Dynamics                                    | MESTICI, Simone      |
| 15:30 | [91] Are extreme solar particle events and superflares related?                               | KOLDOBSKIY, Sergey   |
| 15:45 | [67] Solar Activity and Galactic Cosmic Rays: A Comprehensive Model for Long-Term Forecasting | PELOSI, David        |

# Thursday, 6 November 2025

## SWR5 – Space Climate: Orals - part 3 (14:45 - 16:00)

-Conveners: Barbara Perri; Kalevi Mursula; Claudio Corti; Ilya Usoskin

| time  | [id] title                                                                                                                                                                     | presenter                    |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 14:45 | [270] The SAPPHIRE-2S model: extension of ESA'S Solar Accumulated and Peak Proton and Heavy Ion Radiation Environment (SAPPHIRE) model                                         | AMINALRAGIA-GIAMINI, Sigiava |
| 15:00 | [239] Cosmic radiation near Earth: Impact of solar activity and the geomagnetic field in long-term modelling of dose from cosmic radiation in space                            | REIS ORCINHA, Miguel         |
| 15:15 | [86] Geoeffective space weather events observed during the solar cycles 24 and 25                                                                                              | Prof. GIL, Agnieszka         |
| 15:30 | [34] Identification and variability of solar periodicities in southern African Baobab $\delta^{13}\text{C}$ tree ring data during the Wolf, Spörer, Maunder and Dalton minima. | KOTZE, Pieter                |
| 15:45 | [201] Different evolution of CME and HSS storms during the Gleissberg cycle: Evidence and implications                                                                         | MURSULA, Kalevi              |