



Session 1 - Solar Corona and Heliosphere: From Flares to CMEs and Interplanetary Shocks

- A catalogue of Forbush decreases recorded on the surface of Mars from 2012 until 2016: comparison with terrestrial FDs
A. Papaioannou, A. Belov, M. Abunina, J. Guo, A. Anastasiadis, R. Wimmer-Schweingruber, E. Eroshenko, A. Melkumyan, A. Abunin, B. Heber, K. Herbst, C.T. Steigies
- Interplanetary Coronal Mass Ejections as the driver of non-recurrent Forbush Decreases
A. Belov, A. Papaioannou, M. Abunina, E. Eroshenko, A. Anastasiadis, S. Patourakos, H. Mavromichalaki, A. Abunin

Session 6 - Unveiling Current Challenges in Space Weather Forecasting

- On the usage of Principal Components Analysis (PCA) for the Prediction of Solar Energetic Particle (SEP) events
A. Papaioannou, A. Anastasiadis, A. Kouloumvakos, M. Paassilta, R. Vainio, E. Valtonen, A. Belov, E. Eroshenko, M. Abunina, A. Abunin
- Statistical validation of an empirical model of solar proton event time profiles
M. Paassilta, R. Vainio, A. Aran, A. Papaioannou, A. Anastasiadis, P. Jiggens, S. Aminalragia-Giamini
- The Advanced Solar Particle Events Casting System (ASPECS) activity
A. Anastasiadis, A. Aran, R. Vainio, I. Sandberg, M. Dierckxsens, P. Jiggens, A. Papaioannou, M.K. Georgoulis, E. Paouris, G. Balasis, O. Giannakis, G. Vasalos, M. Paassilta, S. Aminalragia-Giamini, A. Tsigkanos
- Forecasting the Strength of Geomagnetic Storms utilizing CME-ICME characteristics
E. Paouris, A. Papaioannou, A. Anastasiadis, G. Balasis

Session 7 - Radiation Environments: From Solar Origin to Effects on Space Missions

- Characterization of the L2 radiation environment using ESA SREM measurements
S. Aminalragia-Giamini, S. Raptis, I. Sandberg, A. Anastasiadis, C. Papadimitriou, I. A. Daglis, P. Nieminen
- Solar and interplanetary sources of Solar Energetic Particle (SEP) Events during 1988-2013. Implications for SEP forecasting
A. Papaioannou, E. Paouris, A. Anastasiadis, A. Aran, R. Vainio, M. Paassilta, P. Jiggens