

MONDAY 17 May 2021		UK	CEST	EEST	Australia	Japan	Pacific (EDT-3)
EDT	SA1 Chairs: Andy Smith & Maria Dainotti						
9:30am-10:00am	WELCOME & INTRODUCTION	2:30pm	3:30pm	4:30pm	11:30pm	10:30pm	6:30am
10:00am-10:30am	Lika Guhathakurta - Emerging Frontiers in Heliophysics Enabled by AI and Public-Private Partnerships	3:00pm	4:00pm	5:00pm	12:00am	11:00pm	7:00am
10:30am-10:50am	Egor Illarionov - Deep embeddings learnt from sunspot groups	3:30pm	4:30pm	5:30pm	12:30am	11:30pm	7:30am
10:50am-11:10am	Artem Poliszczuk - Active Galactic Nuclei Selection in Panchromatic North Ecliptic Pole Data: a Machine Learning Approach	3:50pm	4:50pm	5:50pm	12:50am	11:50pm	7:50am
11:10am-11:50am	Coffee & Discussion - Statistical Methods & ML in Magnetospheric Studies - Joe Borovsky & Simon Wing	4:10pm	5:10pm	6:10pm	1:10am	12:10am	8:10am
	SA2 Chairs: Olga Verkhoglyadova & Silvina Guidoni						
11:50am-12:10pm	Robert Jarolim - Multi-channel coronal hole detection with convolutional neural networks	4:50pm	5:50pm	6:50pm	1:50am	12:50am	8:50am
12:10pm-12:30pm	Daniel Magro - Object Detection with Mask-RCNN	5:10pm	6:10pm	7:10pm	2:10am	1:10am	9:10am
12:30pm-12:50pm	Andong Hu - Using Least-Squares based Ensemble Re-weighted Convolutional Neural Network to Predict Dst probabilities based on Full-Disk SoHO Images	5:30pm	6:30pm	7:30pm	2:30am	1:30am	9:30am
12:50pm-1:10pm	Elena Kronberg - Prediction and understanding of soft proton contamination in XMM-Newton	5:50pm	6:50pm	7:50pm	2:50am	1:50am	9:50am
1:10pm-1:40pm	LUNCH BREAK	6:10pm	7:10pm	8:10pm	3:10am	2:10am	10:10am
	SA3 Chairs: Jessie Dotson & Jack Ziegler						
1:40pm-2:00pm	Daniel de Andres - A Deep Learning Approach to Infer Galaxy Cluster Masses in Planck Compton parameter maps	6:40pm	7:40pm	8:40pm	3:40am	2:40am	10:40am
2:00pm-2:30pm	Shasha Zou - Specification and Forecast of Ionospheric Total Electron Content Using VISTA and Machine Learning	7:00pm	8:00pm	9:00pm	4:00am	3:00am	11:00am
2:30pm-2:50pm	Laura Boucheron - Spatiotemporal Visualization of Solar Energetic Particle Events	7:30pm	8:30pm	9:30pm	4:30am	3:30am	11:30am
2:50pm-3:10pm	Otto Lamminpää - Gaussian Process Emulator for Computationally Expensive Physics Models	7:50pm	8:50pm	9:50pm	4:50am	3:50am	11:50am
3:10pm-3:20pm	COFFEE BREAK	8:10pm	9:10pm	10:10pm	5:10am	4:10am	12:10pm
	SA4 Chairs: Sachin Shenoy & Annie Didier						
3:20pm-3:50pm	Robert McPherron - Statistics of Substorm Onset in the SuperMag Lower Index (SML)	8:20pm	9:20pm	10:20pm	5:20am	4:20am	12:20pm
3:50pm-4:10pm	Viacheslav Sadykov - "All-Clear" Prediction of Solar Proton Events using Machine Learning and Comparison with Operational Forecasts	8:50pm	9:50pm	10:50pm	5:50am	4:50am	12:50pm
4:10pm-4:30pm	Simon Wing - Modeling radiation belt electrons with information theory and neural networks	9:10pm	10:10pm	11:10pm	6:10am	5:10am	1:10pm
4:30pm-4:50pm	Tom Narock - Identification of Flux Rope Orientation via Neural Networks	9:30pm	10:30pm	11:30pm	6:30am	5:30am	1:30pm
4:50pm-5:10pm	Jay Johnson - Transfer Entropy Approach to Identifying Cross-Scale Coupling in Kelvin-Helmholtz Structures in Hybrid Simulations	9:50pm	10:50pm	11:50pm	6:50am	5:50am	1:50pm
5:10pm-5:40pm	E-POSTERS I: Yasser Abdullah (1), Laura A. Balmaceda (8), Luke Bowden (19), Luisa Capannolo (31) & Yaxue Dong (37)**.	10:10pm	11:10pm	12:10pm	7:10am	6:10am	2:10pm

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TUESDAY 18 May 2021		UK	CEST	EEST	Australia	Japan	Pacific (EDT-3)
EDT	SB1 Chairs: Maria Dainotti & Aoife McCloskey						
9:30am-10:00am	Adnane Osmane - Consequences of ULF fluctuations with finite correlation time on radial diffusion of radiation belts' particles	2:30pm	3:30pm	4:30pm	11:30pm	10:30pm	6:30am
10:00am-10:20am	Inigo Arregui - Applications of Bayesian Methods in the Solar Corona	3:00pm	4:00pm	5:00pm	12:00am	11:00pm	7:00am
10:20am-10:40am	Andrei Plotnikov - Inversion of Stokes profiles in Milne-Eddington atmosphere model with deep neural networks	3:20pm	4:20pm	5:20pm	12:20am	11:20pm	7:20am
10:40am-11:00am	Thomas Ceconello & Cristobal Bordiu - Towards a Modern Unsupervised Machine Learning Approach to the Analysis of Astrophysics Images	3:40pm	4:40pm	5:40pm	12:40am	11:40pm	7:40am
11:00am-11:40am	Coffee & Discussion - Statistical Methods & ML in Astronomy - Maria Dainotti, & Agnieszka Pollo	4:00pm	5:00pm	6:00pm	1:00am	12:00am	8:00am
	SB2 Chairs: Joe Borovsky & Paolo Romano						
11:40am-12:10pm	Agnieszka Pollo - Extragalactic Big Data: promises and challenges	4:40pm	5:40pm	6:40pm	1:40am	12:40am	8:40am
12:10pm-12:30pm	Carl Schneider - A Machine-Learning-Ready Software Framework Prepared for the SoHO and SDO Missions for Space Weather Readiness	5:10pm	6:10pm	7:10pm	2:10am	1:10am	9:10am
12:30pm-12:50pm	Lorenzo Branca - Physics Informed Neural Networks to solve non-equilibrium chemistry of Inter Stellar Medium	5:30pm	6:30pm	7:30pm	2:30am	1:30am	9:30am
12:50pm-1:20pm	LUNCH BREAK	5:50pm	6:50pm	7:50pm	2:50am	1:50am	9:50am
	SB3 Chairs: Andrés Muños-Jaramillo & Banafsheh Ferdousi						
1:20pm-1:40pm	Saida Milena Díaz Castillo - Identification and classification of solar granulation structures using semantic segmentation	6:20pm	7:20pm	8:20pm	3:20am	2:20am	10:20am
1:40pm-2:00pm	Carsten Baumann - Propagate L1 solar wind measurements to Earth with the help of machine learning	6:40pm	7:40pm	8:40pm	3:40am	2:40am	10:40am
2:00pm-2:20pm	Olga Verkhoglyadova - Approaches to identification of high-density TEC regions in ionospheric global maps	7:00pm	8:00pm	9:00pm	4:00am	3:00am	11:00am
2:20pm-2:40pm	Michael Himes - Neural Network Surrogate Models for Fast Bayesian Inference: Application to Exoplanet Atmospheric Retrieval	7:20pm	8:20pm	9:20pm	4:20am	3:20am	11:20am
2:40pm-3:00pm	Irina Kitiashvilli - Building Physics-Based Solar Cycle Forecasts Using the Ensemble Kalman Filter Method	7:40pm	8:40pm	9:40pm	4:40am	3:40am	11:40am
3:00pm-3:10pm	COFFEE BREAK	8:00pm	9:00pm	10:00pm	5:00am	4:00am	12:00pm
	SB4 Chairs: Viacheslav Sadykov & Wouter de Wet						
3:20pm-3:40pm	Yang Pan - TEC map reconstructions using deep neural networks	8:20pm	9:20pm	10:20pm	5:20am	4:20am	12:20pm
3:40pm-4:00pm	Amy Braverman - Post hoc Uncertainty Quantification for Remote Sensing Observing Systems	8:40pm	9:40pm	10:40pm	5:40am	4:40am	12:40pm
4:00pm-4:30pm	Meg Millhouse - Bayesian inference in gravitational-wave data analysis	9:00pm	10:00pm	11:00pm	6:00am	5:00am	1:00pm
4:30pm-4:50pm	Hu Sun - Improved and Interpretable Solar Flare Predictions with Spatial and Topological Features of the Polarity-Inversion-Line Masked Magnetograms	9:30pm	10:30pm	11:30pm	6:30am	5:30am	1:30pm
4:50pm-5:10pm	Hai Nguyen - Spatial Statistical Data Fusion for Remote Sensing Applications	9:50pm	10:50pm	11:50pm	6:50am	5:50am	1:50pm
5:10pm-5:30pm	E-POSTERS II: Luiz Fernando Guedes dos Santos (38), James "Andy" Edmond (39) & Divyam Goel (42)**.	10:10pm	11:10pm	12:10pm	7:10am	6:10am	2:10pm

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WEDNESDAY 19 May 2021		UK	CEST	EEST	Australia	Japan	Pacific (EDT-3)
EDT	SC1 Chair: Manolis Georgoulis & Carlos Braga						
9:30am-9:50am	Federico Siciliano - Forecasting SYM-H Index: A Comparison Between Long Short-Term Memory and Convolutional Neural Networks	2:30pm	3:30pm	4:30pm	11:30pm	10:30pm	6:30am
9:50am-10:20am	Giovanni Lapenta - Observation, Simulation and Machine Learning: analysing vast particle data sets to extract physics insight into turbulence and reconnection	2:50pm	3:50pm	4:50pm	11:50pm	10:50pm	6:50am
10:20am-10:40am	Guillaume Bernoux - Evaluating a data-driven model to forecast the geomagnetic index Ca from near-Earth solar wind parameters	3:20pm	4:20pm	5:20pm	12:20am	11:20pm	7:20am
10:40am-11:00am	Lána Salmon - Wavelet-based feature extraction from gamma-ray burst light curves	3:40pm	4:40pm	5:40pm	12:40am	11:40pm	7:40am
11:00am-11:40am	Coffee & Discussion Statistical Methods & ML in Heliophysics - Peter Wintoft & Manolis Georgoulis	4:00pm	5:00pm	6:00pm	1:00am	12:00am	8:00am
	SC2 Chairs: Constantinos Papadimitriou & Yen-Jung Wu						
11:40am-12:00pm	Giacomo D'Amico - Signal estimation in On/Off measurements including event-by-event variables	4:40pm	5:40pm	6:40pm	1:40am	12:40am	8:40am
12:00pm-12:20pm	Simone Benella - A study on the Markovian character of the AE-index fluctuations	5:00pm	6:00pm	7:00pm	2:00am	1:00am	9:00am
12:20pm-12:40pm	Aditya Narendra - Redshift estimation of AGNs and GRBs using machine learning	5:20pm	6:20pm	7:20pm	2:20am	1:20am	9:20am
12:40pm-1:00pm	Francesco Schillirò - Segmentation of spectroscopic images of the low solar atmosphere by the self-organizing map technique	5:40pm	6:40pm	7:40pm	2:40am	1:40am	9:40am
1:00pm-1:30pm	LUNCH BREAK	6:00pm	7:00pm	8:00pm	3:00am	2:00am	10:00am
	SC3 Chairs: Xing Meng & Jonathan Hobbs						
1:30pm-1:50pm	Mirko Stumpo - Machine learning approach for the ESPERTA forecasting tool of solar proton events	6:30pm	7:30pm	8:30pm	3:30am	2:30am	10:30am
1:50pm-2:20pm	Berkay Aydin - Building Cyberinfrastructure for Operational Space Weather Analytics	6:50pm	7:50pm	8:50pm	3:50am	2:50am	10:50am
2:20pm-2:40pm	Andrés Muñoz-Jaramillo - Cross-calibration, super-resolution, and uncertainty estimation of the conversion of MDI and GONG to HMI full-disk magnetograms using deep learning	7:20pm	8:20pm	9:20pm	4:20am	3:20am	11:20am
2:40pm-3:10pm	E-POSTERS III: Gouri Ramesh (82), Anastasia Marie Seifert (88), Sujitra Sutthithatip (95), Ajay K Tiwari (98) & Thorold Tronrud (100)**.	7:40pm	8:40pm	9:40pm	4:40am	3:40am	11:40am
3:10pm-3:20pm	COFFEE BREAK	8:10pm	9:10pm	10:10pm	5:10am	4:10am	12:10pm
	SC4 Chairs: Irina Kitiashvili & Jason Bernstein						
3:20pm-3:40pm	Jack Ziegler - New ML Approaches for Nowcasting of Global Auroral Particle Precipitation	8:20pm	9:10pm	10:10pm	5:10am	4:10am	12:10pm
3:40pm-4:00pm	Victor Pinto - Forecasting ground magnetic fluctuations using deep learning. Overview of the MAGICIAN team recent results	8:40pm	9:30pm	10:30pm	5:30am	4:30am	12:30pm
4:00pm-4:20pm	Sylvain Blunier - Neural network-based methods to determine the robust SMI couplings	9:00pm	9:50pm	10:50pm	5:50am	4:50am	12:50pm
4:20pm-4:40pm	Hazel Bain - A Verification Study of NOAA Space Weather Prediction Center's Energetic Proton Event Forecasts during Solar Cycles 23 and 24	9:20pm	10:10pm	11:10pm	6:10am	5:10am	1:10pm
4:40pm-5:00pm	Brian Swiger - Connecting the solar wind to the near-Earth magnetospheric plasma sheet through deep learning	9:40pm	10:30pm	11:30pm	6:30am	5:30am	1:30pm
5:00pm-5:20pm	Yen-Jung Wu - Application of deep learning on integrating cross-satellite and multi-field measurements in Earth's upper atmosphere	10:00pm	10:50pm	11:50pm	6:50am	4:50am	1:50pm

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THURSDAY 20 May 2021		UK	CEST	EEST	Australia	Japan	Pacific (EDT-3)
EDT	SD1 Chairs: Peter Wintoft & Tiziano Zingales						
9:30am-9:50am	Alessio Troiani - Lonely planets and light belts: the Statistical Mechanics of Gravitational Systems	2:30pm	3:30pm	4:30pm	11:30pm	10:30pm	6:30am
9:50am-10:10am	Tommaso Alberti - Chaos in the solar wind	2:50pm	3:50pm	4:50pm	11:50pm	10:50pm	6:50am
10:10am-10:40am	Enrico Camporeale - Solving inverse problems with physics informed neural networks: a radiation belt case study	3:10pm	4:10pm	5:10pm	12:10am	11:10pm	7:10am
10:40am-11:00am	Aoife McCloskey - Sunspot Classifications & Solar Flare Prediction: A comparative performance analysis of machine learning and Poisson-based prediction models	3:40pm	4:40pm	5:40pm	12:40am	11:40pm	7:40am
11:00am-11:40am	Coffee & Discussion - Statistical Methods & ML in Planetary Sciences and Exoplanets - Jay Johnson, Karly Pitman	4:00pm	5:00pm	6:00pm	1:00am	12:00am	8:00am
	SD2 Chairs: Jay Johnson & Maria Elena Innocenti						
11:40am-12:00pm	Carlo Cannarozzo - Inferring the Dark Matter halo mass in galaxies from other observables with Machine Learning	4:40pm	5:40pm	6:40pm	1:40am	12:40am	8:40am
12:00pm-12:20pm	Andy Smith - Forecasting the Probability of Large Rates of Change of the Surface Magnetic Field in the UK	5:00pm	6:00pm	7:00pm	2:00am	1:00am	9:00am
12:20pm-12:40pm	Madhurjya Changmai - Turbulence Characteristics of Quiescent Solar Prominence due to Rayleigh Taylor Instabilities	5:20pm	6:20pm	7:20pm	2:20am	1:20am	9:20am
12:40pm-1:00pm	Egor Illarionov - Machine-learning framework for synoptic maps construction and coronal holes segmentation	5:40pm	6:40pm	7:40pm	2:40am	1:40am	9:40am
1:00pm-1:30pm	LUNCH BREAK	6:00pm	7:00pm	8:00pm	3:00am	2:00am	10:00am
	SD3 Chairs: Simone Benella & Laura Boucheron						
1:30pm-2:00pm	E-POSTERS IV: Shreya Bhattacharya (13), Teo Bloch (15), Elena Garcia Broock (23), Giovanni Bruno (24) & Andrea Bulgarelli (25)**.	6:30pm	7:30pm	8:30pm	3:30am	2:30am	10:30am
2:00pm-2:30pm	Chris Maddison - Lossy Compression for Lossless Prediction	7:00pm	8:00pm	9:00pm	4:00am	3:00am	11:00am
2:30pm-2:50pm	Jason Bernstein - U Statistic Estimation of Space Object Conjunction Probabilities	7:30pm	8:30pm	9:30pm	4:30am	3:30am	11:30am
2:50pm-3:10pm	Joe Borovsky - Vector-Vector Correlations: Deriving a New Composite Geomagnetic Index	7:50pm	8:50pm	9:50pm	4:50am	3:50am	11:50am
3:10pm-3:20pm	COFFEE BREAK	8:10pm	9:10pm	10:10pm	5:10am	4:10am	12:10pm
	SD4 Chair: Mikhail Sitnov & Saverio Cambioni						
3:20pm-3:50pm	Abigail Azari - Interpretable Models for Understanding Planetary Space Environments: Bayesian Views of Mars' Magnetic Environment	8:20pm	9:20pm	10:20pm	5:20am	4:20am	12:20pm
3:50pm-4:10pm	Grant Stephens - Empirically picturing the global magnetosphere during storms and substorms by data mining spaceborne magnetometer measurements	8:50pm	9:50pm	10:50pm	5:50am	4:50am	12:50pm
4:10pm-4:30pm	Hamlin Liu - Traveling Ionospheric Disturbances detection with Convolutional Neural Networks: a proof-of-concept with the 2012 Hawaii earthquake and tsunami	9:10pm	10:10pm	11:10pm	6:10am	5:10am	1:10pm
4:30pm-4:50pm	Juan Alejandro Valdivia - Neural network-based method to characterize the robust interactions between geomagnetic storms and substorms	9:30pm	10:30pm	11:30pm	6:30am	5:30am	1:30pm
4:50pm-5:20pm	E-POSTERS V: Jeremy Grajeda (43), Sheng Huang (49), Sudha Kapali (55), Thurmon Lockhart (61) & Zena Stevenson (92)**.	9:50pm	10:50pm	11:50pm	6:50am	5:50am	1:50pm

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FRIDAY 21 May 2021		UK	CEST	EEST	Australia	Japan	Pacific (EDT-3)
EDT	SE1 Chairs: Simon Wing & Michail Balikhin						
9:30am-10:00am	Daniele Telloni - Statistical Methods Applied to Space Weather Science	2:30pm	3:30pm	4:30pm	11:30pm	10:30pm	6:30am
10:00am-10:20am	Margherita Grespan - Machine Learning for transient selection in wide-field optical surveys	3:00pm	4:00pm	5:00pm	12:00am	11:00pm	7:00am
10:20am-10:40am	Vincent Caillé - Cloud Catalog and Statistics Using Machine Learning Algorithms on Mars Orbiter Laser Altimeter/Mars Global Surveyor Data	3:20pm	4:20pm	5:20pm	12:20am	11:20pm	7:20am
10:40am-11:00am	Carmelo Pino - A deep object segmentation approach on radio-astronomical images	3:40pm	4:40pm	5:40pm	12:40am	11:40pm	7:40am
11:00am-11:40am	Coffee & Discussion - Statistical Methods & ML Aeronomy, Turbulence and Nonlinear Dynamics - Juan Alejandro Valdivia & Michail Balikhin	4:00pm	5:00pm	6:00pm	1:00am	12:00am	8:00am
	SE2 Chairs: Raffaella D'Amicis & Giuseppina Carnevale						
11:40am-12:10pm	Malgorzata Bogdan - Statistical methods for the analysis of large dimensional data	4:40pm	5:40pm	6:40pm	1:40am	12:40am	8:40am
12:10pm-12:30pm	Georgios Balasis - Dynamical complexity in Swarm Dst-like time series using information theory measures	5:10pm	6:10pm	7:10pm	2:10am	1:10am	9:10am
12:30pm-12:50pm	Manolis Georgoulis - Machine Learning Methods for the Forecasting of Solar Eruption Products	5:30pm	6:30pm	7:30pm	2:30am	1:30am	9:30am
12:50pm-1:10pm	Maria Dainotti - On the Hubble constant tension in the SNe Ia Pantheon sample	5:50pm	6:50pm	7:50pm	2:50am	1:50am	9:50am
1:10pm-1:40pm	LUNCH BREAK	6:10pm	7:10pm	8:10pm	3:10am	2:10am	10:10am
	SE3 Chairs: Junjun Liu & Stavro Ivanovski						
1:40pm-2:10pm	Hannah Kerner - Novelty-guided onboard targeting and tactical planning for Mars rovers	6:40pm	7:40pm	8:40pm	3:40am	2:40am	10:40am
2:10pm-2:40pm	E-POSTERS VI: Haroun El Mir (40), Maria Elena Innocenti (52), Luning Li (62), Jorge H. Namour (70) & Mariano Poisson (79)**.	7:10pm	8:10pm	9:10pm	4:10am	3:10am	11:10am
2:40pm-3:00pm	Viacheslav Sadykov - Compression of Solar Spectroscopic Observations: Case Study of Mg II k Spectral Line Profiles Observed by NASA's IRIS Satellite	7:40pm	8:40pm	9:40pm	4:40am	3:40am	11:40am
3:00pm-3:10pm	COFFEE BREAK	8:00pm	9:00pm	10:00pm	5:00am	4:00am	12:00am
	SE4 Chair: Bala Poduval & Jon Niehof						
3:10pm-3:30pm	Carlos Braga - Can machine learning and artificial intelligence improve the compilation of coronal mass ejections event lists?	8:10pm	9:10pm	10:10pm	5:10am	4:10am	1:10am
3:30pm-3:50pm	Saverio Cambioni - Building terrestrial planets using machine learning	8:30pm	9:30pm	10:30pm	5:30am	4:30am	1:30am
3:50pm-4:10pm	Annie Didier - Incepting Interplanetary "Google Search" through Machine Learning	8:50pm	9:50pm	10:50pm	5:50am	4:50am	1:50pm
4:10pm-4:30pm	Jonathan Hobbs - Simulation-Based Uncertainty Quantification for Infrared Sounder Atmospheric Retrievals	9:10pm	10:10pm	11:10pm	6:10am	5:10am	1:10pm
4:30pm-4:40pm	CONCLUDE	9:30pm	10:30pm	11:30pm	6:30am	5:30am	1:30pm

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