Tuesday

2024 GEM Summer Workshop
Fort Collins, Colorado
June 23-28

NSF-Sponsored Conference

Poster Id	Presenter Name	Poster Title
		Global System Modeling (GSM)
1	Austin Smith	Magnetosphere-Ionosphere Coupling Sensitivity for Jupiter-Like GAMERA Simulations
3	Dean Thomas	What drove the Carrington event? An analysis of currents and geospace regions
5	Erik Vandegriff	Magnetospheric Drivers of Geomagnetically Induced Currents in Global Models and Connection to Ring Current
7	John Spritzer	Correcting Vector Magnetometers to Geomagnetic Referenced Field Variometers
9	Pauline Dredger	Power Spectra for Ground Magnetometers During a Geomagnetic Storm
11	Raman Mukundan	Uncovering the Relationships between Localized Geomagnetic Disturbances and the Solar Wind
15	Shibaji Chakraborty	SCUBAS: A Python-based numerical model to estimate electrical surges in submarine cables during geomagnetic disturbances.
17	Matthew Blandin	Residual Convolutional Neural Networks for Global Geomagnetic Field Predictions
19	Michael Coughlan	Analyzing the Influence of Ion Temperature Maps on Probabilistic Predictions of Localized Geomagnetic Perturbations
21	Katherine Davidson	Effects of high-latitude ionospheric drivers on the F-region thermosphere during the 17 March 2013 storm
23	Moe Hayashi	Electric field penetration during Isolated Substorms: Impacts of SCW Dynamics
25	M. Hasan Barbhuiya	Identifying Stages of Magnetic Reconnection using Pressure-Strain Interaction
27	Andrew Marshall	Substorm Onset During a Period of Northward IMF associated with a By Reversal
		Inner MAGnetosphere (IMAG)
29	Alec Daly	Statistical Survey of Interchange Events in the Jovian Magnetosphere Using Juno Observations
31	Erika Hathaway	Studying Saturn's Interchange Instability Injection Events: Cassini Data Investigation and Modeling Update
33	OLEKSIY AGAPITOV	Latitudinal Mapping of Chorus Waves Growth Rates Based on Multi-Spacecraft Wave and Plasma Measurements
35	Wondwossen Eshetu	Simulation of electron acceleration by ionospheric Alfven resonator field in Jupiter
37	Myeong Joon Kim	Statistical Analysis of The Low-Energy Plasma Contribution to the Linear Instability of Whistler-Mode Chorus Waves in the Earth' Magnetosphere
39	Raahima Khatun-E-Zannat	Simulation Study of Whistler Mode Waves in the Magnetosphere Using Ray Tracing and Finite Difference Time Domain (FDTD) Models
41	Shujie Gu	The role of cold oxygen ions in the EMIC wave growth
43	Tyler Bishop	Superposed Epoch Study of Two Stage Refilling in the Plasmasphere
45	YUKI OBANA	A New Approach to Estimating Plasmapause Position in the Nightside Magnetosphere
47	Brianna Isola	Data-Driven Methods for Characterizing the Inner Magnetospheric Electric Field
49	Evan McPherson	Imbalanced Regressive Model of Electron Fluxes in the Earth's Outer Radiation Belt
51	Jonathan Mellina	Investigating Tidal Effects in Earth's Plasmasphere Using a Machine Learning Model
53	Paraksh Vankawala	Computer Vision-Generated Database of Plasma Waves in the Inner Magnetosphere
55	Qusai Al Shidi	Reduced Order Probabilistic Emulator for the Ring Current: Towards Nonlinearity with Deep Learning
57	Jodie McLennan	Assessing the Validity of Differing Model Inputs to an Energy Flux Inversion Method
59	Connor DiMarco	Inner Magnetosphere Observations of Sawtooth Oscillations
61	Micayla Holland	Deep Injections of Electrons Measured by the Van Allen Probes and POES Satellites
63	Weiqin Sun	ELFIN/GPS comparison of energetic electron fluxes: model for low-altitude electron flux projection to the equatorial magnetosphere
65	Alex Shane	Lightning Generated Whistlers: Variability of Frequency and Wave Normal Angle Power Distributions
67	Alexandra Wold	Trans-ionospheric propagation and attenuation of VLF waves
69	Brian Kress	Relationship Between GOES-R Series Spacecraft Operational Anomalies and In Situ 30 eV – 3 MeV Electron Measurements
71	David Tonoian	Energetic electron scattering by EMIC waves: comparative analysis of effects of high-frequency low amplitude waves and fractional resonant effects
73	Declan O'Brien	Observations of the Detailed Structure of Relativistic Electron Drift Echoes Using High-Energy-Resolution REPT Data
75	Domenique Freund	MeV Electron Precipitation during Radiation Belt Dropouts
77	Zheng Xiang	Wave-induced electron precipitation observed by CIRBE/REPTile-2
79	Donglai Ma	Simulating the Earth's Outer Radiation Belt Electron Fluxes and Their Upper Limit: A Unified Physics-Based Model Driven by the AL Index
81	Emile Saint-Girons	Omnidirectional Energetic Electron Fluxes from 150 km to 20,000 km: an ELFIN-Based Model
83	Murti Nauth	Evidence for a current system and potential structure in the Martian magnetotail
85	Frances Staples	The need for high quality real time radiation measurements in the heart of the radiation belt.
87	Huayue Chen	Nonlinear Wave-Particle Interactions in the Formation of Chorus Wave Subpackets
89	Huayue Chen	Electron Scattering and Associated Precipitation Driven by Chorus Waves
91	Jiabei He	Statistical Analysis of Subpacket Structure in Isolated and Overlapping Chorus Elements
93	Jinbei Huang	Modeling the Fast Dropout of Radiation Belt Electrons During the 31 December 2016 Storm: A Comprehensive Study
95	JORGE	Design and Testing of a dual aperture relativistic electron telescope for CubeSats to measure energy deposition in the atmosphere
97	Joshua Doucette	Differentiating between Local Acceleration and Radial Diffusion in Earth's Radiation Belts
101	Julia Luna Claxton	EMIC-Induced Precipitation as Measured by ELFIN: Source Regions, Impacts, and Energy Dependence