Tuesday

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

NSF-Sponsored Conference

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		Inner MAGnetosphere (IMAG)
103	Kalvyn Adams	Decreasing Flux of Inner Zone Protons During Solar Cycle 25: Past the Gleissberg Cycle Minimum?
105	Krushna Chandra Barik	Role of Broadband Kinetic Alfvén Waves in the Loss of Relativistic Electrons From Outer Radiation Belt
107	Man Hua	Upper Limit of Outer Belt Electron Acceleration and Their Controlling Geomagnetic Conditions
109	Mark Golkowski	Controlled Excitation of Whistler-Mode Wave Particle Interactions with the HAARP Facility
111	Maulik Patel	Simulation of ULF wave modulated electron precipitation during the 17 March 2015 storm
113	Muhammad Shahid	Electromagnetic Ion Cyclotron Emission from Ion-scale Magnetic Holes
115	Murong Qin	Sub-MeV Electron Precipitation Driven by EMIC waves in Plasmaspheric Plumes at High L shells
117	Ning Kang	The principal role of chorus ducting for night-side relativistic electron precipitation
119	Ning Kang	Ray tracing of whistler mode waves in the Jupiter's magnetosphere
121	Rosalie Tezak	Statistics of Pc-5 ULF Waves and Drift-Periodic Electron Flux Oscillations
123	Rui Chen	Distribution of energetic proton phase space density minima in the Earth’s inner magnetosphere
125	Rushikesh Patil	Modeling the Impenetrable Barrier to Ultrarelativistic Radiation Belt Electrons
127	Sergio Vidal-Luengo	Comparative Observations of the Outer Belt Electron Fluxes and Precipitated Relativistic Electrons
129	Suhail Aldhurais	Radiation Belts Radial Diffusion: From Deterministic Resonance to Diffusivity
131	Will Teague	Developing HERT: Machine Learning-Aided Particle Classification using a Continuous Energy Distribution in Geant4 Simulations
133	Xiaofei Shi	Resonant electron interactions with short wave-packets: Painlevé I equation based model
135	Yang Mei	Characteristics of ubiquitous “zebra stripes” of relativistic electrons unveiled by CIRBE/REPTile-2 measurements and simulations
137	Zhi Gu Li	ULF Wave Transport of Relativistic Electrons in the Van Allen Belts: Criteria for Transition to Radial Diffusion
139	Zhi Gu Li	Quantifying the spatial extent of Persisting EMIC waves through the modeling of multi-point POES/MetOp observations
141	Muhammad Fraz Bashir	Unveiling the Mechanisms of Relativistic Electron Microbursts using ELFIN Observations
143	Zhao Li	Impact of Field Line Curvature Scattering Loss on Trapping of Solar Energetic Protons During the 8–10 March 2012 Geomagnetic Storm
145	Zhiyang Xia	A conjugate case study of electron microbursts driven by chorus waves
147	Cristian Ferradas	The statistical influence of the inner magnetospheric electric field on plasma sheet access
149	Kateryna Yakymenko	Comparison of Whistler Wave Simulations with Particle-in-Cell and Spectral Plasma Solver Codes
151	Xiangrong Fu	Full Particle-in-cell Simulation of Chorus Wave Generation Using SMILEI code
153	Xingzhi Lyu	Parametric Study on the Effect of EMIC Wave Scattering During the 27 February 2014 Storm by RAM-SCB Simulations
155	Daniel da Silva	Radiation Belt Phase Space Density: Calculation Analysis and Model Dependence
		Magnetotail and Plasma Sheet (MPS)
157	Jaya Joseph	Study of magnetic reconnection: Jupiter- Ganymede a perfect platform.
159	Zhihao Cheng	Observations of Ion Return Flow in the Martian Induced Magnetotail Region
161	Harriet George	Bursty bulk flows: combined MMS and THEMIS observations
163	Nitya Agarwala	MMS Observations on the Re-reconnection and Dissipation of Earthward-Moving Flux Ropes
165	Liutauras Rusaitis	A Multi-Scale Particle-in-Cell Simulation of Plasma Dynamics from Magnetotail Reconnection to the Inner Magnetosphere
167	Shan-Chang Lin	Spread of reconnection X-line: the morphology, mechanism, and the effect of kink instability
169	Talha Arshad	Developing the Magnetohydrodynamics with Adaptively Embedded Adaptive Particle-in-Cell (MHD-AEAPIC) Model
171	Anusree Devanandan	Statistical Analysis of Bursty Bulk Flows in the magnetotail using MMS and TWINS data
173	Colin Wilkins	Quantifying the drivers of energetic particle isotropy boundaries
175	Joel Tibbetts	Simulated Energetic Neutral Atom Imaging of a Modeled Magnetosphere
177	Sanjay Chepuri	The Effects of Plasma Source on Adiabatic Electron Acceleration at Dipolarization Fronts
179	Vincent Ledvina	Observations of Pseudo Auroral Breakups preceded by Auroral Beads
181	Shannon Hill	Theta aurora: the importance of reconnection during northward IMF
183	CHIH-PING WANG	Ion diffusive transport across the separatrix between the low-latitude mantle and the plasma sheet by kinetic Alfvén waves: MMS observation
		Solar Wind - Magnetosphere Interaction (SWMI)
185	CHIH-PING WANG	Suprathermal outflowing H+ ions in the lobe driven by an interplanetary shock: A Cluster event and 3D global hybrid simulation
187	Harald Kucharek	The Plasma Observatory (A future ESA M-class Mission)
189	Rebecca Harvey	Observational analysis of small-scale structures across the Earth's bow shock
191	Mei-Yun Lin	A New Source of Plasma in Earth’s Magnetosphere: Potential Contributions of Lunar Pickup Ions
193	Marc Lessard	The Magnetometer for the Space Weather Follow-On L1 (SWFO-L1) Mission
		Magnetosphere - Ionosphere Coupling (MIC)
195	Marc Lessard	The Space Weather Underground Project
197	Peter Chi	Geomagnetic Perturbations in the United States Induced by the 2023 and 2024 Solar Eclipses