Tuesday

Poster Id	Presenter Name	Poster Title
Inner MAGnetosphere (IMAG)		
1	Kalvyn Adams	"Turnover in Gleissberg Cycle Dependence of Inner Zone Proton Flux."
2	Samuel D Walton	10s-100s keV Electron Injections Below the Inner Radiation Belt
3	Tyler Bishop	A Look at the Spatial and Temporal Evolution of the Plasmasphere using Van Allen Probes Data
4	Solene Lejosne	A New Stochastic Radiation Belt Model that Resolves the Drift Phase
5	Jasmine Kaur Sandhu	A Three-Dimensional Field Line Resonance at a Plasmaspheric Plume
6	Jiabei He	Association of relativistic microbursts duration with chorus wave properties
7	Kelly Cantwell	BARREL Observations of Dual-Component Microburst Events
8	Xu Liu	Bi-ion Hybrid Resonant Frequency Observation and Ion Concentration Evaluation
9	Dmytro Sydorenko	Calculation of anomalous UV emission caused by conjugate photoelectrons
10	Sergio Vidal-Luengo	Characterization of Relativistic Electron Precipitation Events Observed by the CALET Experiment Using Self-Organizing-Maps
11	Domenique Freund	Contribution of Precipitation Losses to Radiation Belt Dropouts
12	Justin Holmes	Energy Conservation in Magnetospheric Ray Tracing Models
13	Sheng Huang	Deep Learning Model of Hiss Waves in the Plasmasphere and Plumes and Their Effects on Radiation Belt Electrons
14	Man Hua	Dependence of electron flux dropouts in the Earth's outer radiation belt on energy and driving parameters
15	Justin Holmes	Structure of Mixed-Obliquity Chorus Wave Populations
16	Will Teague	Developing the High-Energy-Resolution Relativistic Electron Telescope (HERT) for Investigating Radial Diffusion and Local Acceleration in the Outer Radiation Belt
17	Xiangning Chu	Distribution and evolution of whistler-mode chorus waves modeled by a neural network
18	Myeong Joon Kim	Investigation of Warm (E< 100 eV) Ions Heating Inside the Plasmaspehric Plume Observed by MMS
20	Alex Shane	Electron Lifetimes Measured at LEO: Comparison with RBSP Estimates and Pitch Angle Resolved Lifetimes
21	Longzhi Gan	Electron Precipitation by Intense Chorus Waves: Combined Effects of Anomalous Trapping and Phase Bunching
22	Bernhard Haas	Data-assimilative electron ring current simulations using multi-spacecraft observations
23	Ning Kang	Global distribution of chorus wave induced relativistic microburst spatial scale size
24	Pedro Oliveira Carvalho da Silva	Going beyond H+ and O+: a multi fluid approach to modeling N+ in the ring current
25	Gabriel Costanzo	Hybrid Simulations of Electromagnetic Ion Cyclotron (EMIC) Waves
26	Ethan Tsai	Inferring the latitudinal spread of whistler-mode waves along field lines using electron precipitation measurements
27	Yangyang Shen	Inner Belt Wisp Precipitation Measured by ELFIN: Regimes of Energetic Electron Scattering by VLF Transmitter Waves
28	Yiwen Zhu	Investigation of Injections into Geosynchronous Orbit During Substorms using MAGE Model.
29	Donglai Ma	Earth's radiation belt: from machine learning to physical understanding
30	Suhail Aldhurais	K2: Simulation of Radiation Belt Wave-Particle Interactions in an MHD-Particle Framework
31	Xiao-Chen Shen	Large-Amplitude Whistler Properties in Plasmasphere and Plumes
32	Adnane Osmane	Linear, Quasi-Linear and Nonlinear Radial Transport by ULF waves in the Earth's Radiation Belts
33	Rachael Filwett	LOBSTR: A Mission Concept Study for Radiation Belt Particle Physics
34	Zijin Zhang	Long-term relativistic electron losses by EMIC waves: competition with acceleration by whistlers and plasma injections
35	Daniel da Silva	Model Dependence of Adiabatic Invariant Calculation for Radiation Belt Dynamics
36	Ning Kang	Ray tracing reconstruction of VIPER radio experiment result
37	Bernhard Haas	Modeling Loss Cone Flux without Pitch Angle Diffusion
38	Jinbei Huang	Modeling the Effects of Drift Orbit Bifurcation on the Magnetopause Shadowing Loss of Radiation Belt Electrons
39	Xingzhi Lyu	Modeling the Simultaneous Dropout of Energetic Electrons and Protons by Magnetopause Shadowing
40	Liwei Chen	Muti Conjugate Event Studies of Plasma and Field Variations in the Source Region of Substorm Auroral Brightening in the Inner Magnetosphere
41	Murong Qin	New Global Survey of Energetic Electron Precipitation at Low Earth Orbit Observed by ELFIN
42	Xin An	Nonresonant scattering of energetic electrons by electromagnetic ion cyclotron waves: spacecraft observations and theoretical framework
43	Konstantin Gamayunov	O+ Heating by the He–band EMIC Waves Observed by Van Allen Probe-A on 18 November, 2015
44	Shujie Gu	Observational Properties of Harmonic EMIC waves: Statistical Study
45	Declan O'Brien	Observations of Low L (1 MeV Electron Flux Enhancements and 90° Minimum Pitch Angle Distributions During Strong Geomagnetic Storms
46	Colin Wilkins	Occurrence and Precipitating Energy Flux Associated with Electron Isotropy Boundaries

47	Yang Mei	On the spatial and temporal energy-dependence of the deep (L<3) penetration of outer radiation belt electrons and protons
48	Oliver Allanson	On the validity of quasilinear theory as a function of pitch-angle, wave amplitude and coherency
49	Brianna Isola	Particle dynamics derived from a data-driven model of the inner magnetospheric electric field
50	Alec Daly	Plasma Wave and Particle Dynamics During Interchange Events in the Jovian Magnetosphere Using Juno Observations
51	Dominique 'Nique' Stumbaugh	Predicting Equatorial Electron Flux Measurements from LEO
52	Wenyao Gu	Propagation of very oblique chorus waves near plasmaspheric plume boundary
53	Xiaofei Shi	Properties of Intense Electromagnetic Ion Cyclotron Waves: Implications for Nonlinear and Nonresonant Wave-Particle Interactions
54	Julia Himmelsbach	Proton Ring Current Modelling with VERB-4D
55	Zhi Gu Li	Quantifying the Contribution of Precipitation Loss to the Radiation Belt Dropout Observed by Van Allen Probes
56	SANGYUN LEE	Quantifying the uncertainty in global radiation belt modeling from radial diffusion
57	Alexandra Wold	Modeling lightning generated whistler energy from GLD360 to the Van Allen Probes
58	Dmitri Kondrashov	Reconstruction of Electron Radiation Belts Using Data Assimilation and Machine Learning
59	Alfredo A. Cruz	Reduced-Order Probabilistic Emulation of the Ring Current
60	Stephanie Wang	Ring current ion decay timescales derived from Van Allen Probe observations
61	Jinxing Li	Ring Current Modeling Using Long Short-Term Memory Neural Network
62	Wyatt Wetzel	Scale Sizes of Bouncing Microbursts
63	Kyungguk Min	Simultaneous observations of high-frequency EMIC waves, magnetosonic waves, and anisotropic low-energy protons: Does correlation mean causation?
64	Christian Keenan	Statistics of the Energetic (>30keV) Electron Population in the Ring Current Region
65	Jorge Romero	Design and Testing for a dual aperture relativistic electron telescope for CubeSats to measure energy deposition in the atmosphere
66	Eric Engel	The Energy Spectra of Electron Microbursts and Their Source Population
67	Chi Zhang	The role of neutral dynamics in the decay of ring current
68	Miroslav Hanzelka	Two-dimensional full-wave simulations of ducted and unducted EMIC wave propagation in a cold plasma
69	Rosalie Tezak	ULF wave power distribution in Earth's radiation belts
70	David Hartley	Whistler-mode chorus waves: Electric field measurements and the impact of sheath effects
Magnetosphere - Ionosphere Coupling (MIC)		
71	Alex Shaffer	A 3D Visual Reconstruction of Ionospheric Plasma Outflow
72	Jeremiah W. Johnson	Aurora Detection and Classification in THEMIS All-Sky Images via Self-Supervised Semi-Supervised Learning
73	Jesus Perez	Comparison of Electric Dipole and Loop Antenna Impedance and whistler wave generation efficiency
74	Drew Coffin	Coupling the Europa Plasma Environment to Jupiter
75	Vivian Cribb	Dawnside storm-time wedge current systems and their relation to mesoscale auroral and magnetospheric dynamics
76	Matthew Blandin	Developing a Global Matrix of Solar Wind Driven and Latitude Dependent Machine Learned Models for Geomagnetic Field Predictions
77	Jodie McLennan	Energy Content of Pulsating Aurora Considering Different Atmospheric Models
78	CHIH-PING WANG	Energy-dispersive field-aligned warm ion enhancement in the plasma sheet during a substorm growth phase: A THEMIS event
79	Dibyendu Sur	Evaluation of the Performance of WAM-IPE Model during the Geomagnetic Storm of November 20, 2003
80	Gabrielle Nowak	Exploring Interhemispheric Differences in Geomagnetic Perturbations
81	Niharika Godbole	First Flight and Redesign of the Thermal Ion Gated Time of Flight (TIGTOF)
82	Justin James Tyska	GAIM driven by different empirical models: comparisons of low latitude limiting H+ flux
83	Dillon Gillespie	Global Mapping of Diffuse Electron Aurora and Ionospheric Conductance from Electron Cyclotron Harmonic Waves.
84	Shannon Hill	High-altitude sources of theta aurora
85	Yining Shi	Interhemispheric Asymmetries in Large Magnetic Field Residuals between Swarm Observations and Earth Magnetic Field Model during Non-storm Times
86	Nicholas Bartel	Interhemispheric Asymmetry of Field-Aligned Currents Determined by Principal Component Analysis of AMPERE-Iridium NEXT Magnetometer Data
87	Jenna Burgett	Investigating Neutral Upwelling in the Cusp With the 3U Cubed Satellite
88	Grant Berland	Kinetic Modeling of Radiation Belt Electrons with GEANT4 to Study Energetic Particle Precipitation in Earth's Atmosphere
89	Khilav Majmudar	Nonlinear modelling of auroral zone dynamics under the long-thin approximation
90	mayowa adewuyi	Observation of Magnetotail Structure in Comparison to the Substorm Current Wedge
91	Jose P. Marchezi	On the effects of the solar wind structure in the global distribution of dB/dt spikes during geomagnetic storms from 1995 to 2021
92	Benjamin Hogan	On the loss of ultrarelativistic (>MeV) electron loss at L* = 3.5
94	Richard Gorby	Resurrected IMAGE MENA data for M-I comparisons with FUV data
95	Homayon Aryan	Statistical Analysis of the Auroral Streamer Current Wedge
96	Moe Hayashi	Statistical study of electromagnetic response from polar to mid-low latitudes during substorms
97	Riley Troyer	Substorm Driven Chorus Waves: Decay Timescales and Implications for Pulsating Aurora

98	Aaron West	The Field Line Resonances of Earth and Jupiter
99	Anna DeJong	The Geospace Dynamics Constellation (GDC) Mission: Exploring Magnetosphere-Ionosphere Coupling
100	Kaitlin Doublestein	The Impact of Single Fluid and Multifluid MHD on Ion Outflow: An Inner Boundary Condition Sensitivity Study
101	Xin Cao	The Response of Ionospheric Currents to External Drivers Investigated Using a Neural Network-Based Model
Other		
93	Muhammad Fraz Bashir	Increasing Recognition of Underrepresented Space Scientists: Lessons Learned from the Nomination Task Force Continued Success
102	Mei-Yun Lin	HUG Initiative: The Design and Assessment of an Initiative to Support Students in Research
103	Hsinju Chen	Old Dog New Tricks: Ion Composition Variation over Various Environmental Conditions in OGO 6 Observation Data
Magnetotail and Plasma Sheet (MPS)		
19	Xu Zhang	Excitation of electron cyclotron harmonic waves by electron beams in PIC simulations