

Autumn MIST 2018 Programme

09:30 Registration		
10:30	Richard B. Horne (Invited)	The Van Allen Radiation Belts: Early History and Current Challenges
10:55	Sarah Glauert	30 Years in the Earth's Radiation Belts
11:07	Mark Clilverd	Electron Precipitation from the Outer Radiation Belt During the St Patrick's Day Storm
11:19	Frances Staples	Where is the Magnetopause During Flux Dropout Events in the Outer Radiation Belt?
11:31	Ravindra T. Desai	Global MHD and Test-Particle Simulations of Radiation Belt Behaviour During Shock-Driven Magnetospheric Compressions
11:43	Geraint Jones	A Radiation Belt of Energetic Protons Located Between Saturn and its Rings
11:55 MIST Update and Lunch		
13:00	Emma Woodfield	Chorus Waves Are Better at Accelerating Electrons at Saturn Than Previously Assumed
13:12	Hayley Allison	On the Effect of the Seed Population in Earth's Electron Radiation Belt Region
13:24	Clare Watt	Variability of Quasilinear Diffusion Coefficients for Plasmaspheric Hiss
13:36	Sarah Bentley	A Probabilistic Model of the Waves Driving Radial Diffusion in Earth's Radiation Belts
13:48	Ned Russell Staniland	Quantifying the Stress of the Saturnian Magnetosphere During the Cassini Era
14:00	Omakshi Agiwal	Modelling the Structure of Saturn's Nightside Current Sheet During Cassini's F-ring Apoapsis Passes
14:12	Nahid Chowdhury	Exploring Key Characteristics in Saturn's Infrared Auroral Emissions

14:24

Lightning Talks

14:38

Poster Session and Refreshments

15:45

Benjamin G.
Swithenbank-Harris

Analysis of Jupiter's Dark Polar Region During the Juno Approach Phase

15:57

Christopher Lorch

Radial and Azimuthal Currents Within the Jovian Magnetodisc

16:09

Emma Davies

Radial Evolution of an Interplanetary Coronal Mass Ejection: ACE/WIND, Artemis and Juno Observations

16:21

Liz Tindale

The Solar Cycle-Independent Scaling Properties of Solar Wind Bursts and the Implications for the Power Spectral Density and PDF

16:33

Luca Franci

Hybrid Simulations of the Interplay Between Plasma Turbulence and Magnetic Reconnection and Comparison with In-Situ Observations

16:45

Harneet Sangha

Bifurcating Region 2 Currents and Sub-Auroral Polarization Streams

16:57

David Price

Observations of Joule Heating Associated with an Auroral Arc Above Svalbard

17:09

Meeting Adjourns

Lightning Talks

Jonathan Eastwood

RADCUBE

Chris Owen

Debye: an ESA F-Class Mission to Study Thermal Electron Physics

Christopher Chen

The ESA Heliophysics Archives User Group

David Stansby

HelioPy: A New Python Package for Space Physics

Martin Archer

Audible GOES ULF Wave Dataset & Creative Anthology Film

Wayne Gould

Deciphering Solar Wind Influences at Saturn

Geraint Jones

Astrojots - Explaining Space and Its Exploration through the Medium of Cartoons

Poster Presentations

Oliver Allanson	Electron Diffusion in Self-Consistent Numerical Experiments: Incoherent Broadband Waves
Martin Archer	First Direct Observations of a Surface Eigenmode of the Dayside Magnetopause
Alexander Bader	Short-Periodic Flashing in Saturn's UV Aurora
M. J. Birch & J. K. Hargreaves	On the Origin of Quasi-Periodic Fluctuations in Electron Content at Very High Latitudes in the F-Region
Téo Bloch	Towards the Objective Classification of Coronal Hole and Streamer Belt Solar Wind
Thomas Bradley	Planetary Period Modulation of Reconnection Bursts in Saturn's Magnetotail
Dave Constable	Vlasov Simulations of MI-Coupling in the Jovian System
John Coxon	Filamentary Currents in Five FTEs Observed by MMS
Gareth Dorrian	Statistical Modelling of the Coupled F-Region Ionosphere-Thermosphere at High Latitude
Joe Eggington	Identifying the Location, Extent and Evolution of the Reconnection X-Line in Global MHD Simulations
Colin Forsyth	Average Thermal Electron Spectra in the Inner Magnetosphere as a Function of L, MLT and Kp
Imogen Gingell	Observations of Reconnection Within the Transition Region of Earth's Bow Shock
Gregory Hunt	Current Densities Associated with Saturn's Intra-D Ring Field-Aligned Current System
Seong-Yeop Jeong	Particle-In-Cell Simulations of Electron Strahl Scattering in the Solar Wind
Shannon Jones	Distortion of the 12th December 2008 Coronal Mass Ejection Storm Front
Alexander Richard Lozinski	Evaluation of Solar Cell Radiation Damage during Electric Orbit Raising
Lorenzo Matteini	On the 1/F Spectrum in the Solar Wind and its Connection with Magnetic Compressibility
Nigel P. Meredith	Global Model of Plasmaspheric Hiss from Multiple Satellite Observations
Michaela Mooney	Evaluating Auroral Forecasts Against Satellite Observations
Lauren Orr	Information Flow in Directed Networks of Substorms
Denise Perrone	Radial Evolution of Pure Coronal-Hole Plasma in the Inner Heliosphere

Jade Reidy	Multi-Scale Observation of Two Polar Cap Arcs Occurring on Different Magnetic Field Topologies
John Ross	The Effects of VLF Transmitters on the Inner Radiation Belt
Jasmine Kaur Sandhu	The Variability in Substorm – Ring Current Coupling
Christopher Scott	Using Ghost Fronts Within STEREO Heliospheric
Robert Shore	New Techniques for Electric Field Variability Characterisation from SuperDARN Radar Data
David Stansby	In-Situ Solar Wind Categorisation Inside 1 AU
Julia E. Stawarz	The Relationship Between Electron Magnetic Reconnection and Magnetosheath Turbulence
Rhys Thompson	Exploring the Impacts of Variability in the Radial Diffusion Problem
Samuel J. Wharton	Monitoring the Morphology of the Magnetosphere with ULF Waves