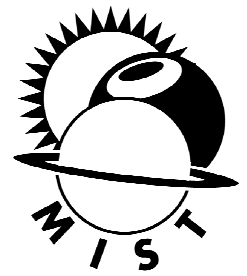


# Autumn MIST 2012 – 30<sup>th</sup> November, 2012



Royal Astronomical Society, Burlington House, Piccadilly

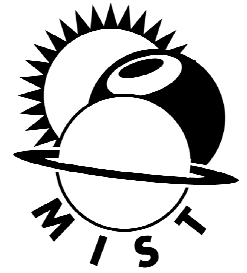
10:30	Tim Horbury (invited)	CINEMA/TRIO: MAGIC in space
11:00	Luke Selzer	Temperature Anisotropy and Heating in the Presence of ULF Waves in the Foreshock.
11:15	Martin Archer	Magnetospheric Impact of Solar Wind Discontinuities: A source of Pc5-6 waves?
11:30	Matt James	The Spatio-temporal Characteristics of ULF Waves Driven by Substorm Injected Particles
11:45	Mike Hapgood	MIST Update

## LUNCH 12:00-13:15

13:15	Richard Horne	Forecasting the Earth's electron radiation belts with SPACECAST
13:30	David Hartley	GOES Observations of Pitch Angle Evolution during an Electron Radiation Belt Dropout: A Two-Stage Process
13:45	David Forster	Superposed epoch analysis of ion composition data during HSS-driven storms in 1991
14:00	Kirthika Mohan	Exploring the Earth's Inner Magnetosphere
14:15	Tim Booth	An Investigation into Ring Current Energisation Through Wave-Particle Interactions and Their Importance within the Storm Time Terrestrial Magnetosphere
14:30	Roger Duthie	Multi-spacecraft Detections of Plasma Sheet Fast Flows and their Relation to Dipolarisations & Substorm Phase

## COFFEE & POSTERS 14:45-15:45

15:45	Jamie Jasinski	Cassini Observations Of Saturn's Magnetospheric Cusps
16:00	Annie Wellbrock	Cassini CAPS-ELS observations of negative ions in Titan's ionosphere: Trends of density with altitude
16:15	Owen Roberts	Turbulence in the fast solar wind measured using the k-filtering method and polarisation analysis
16:30	Kareem Osman	Kinetic Signatures and Intermittent Turbulence in the Solar Wind Plasma
16:45	Andrew Turner	How do discontinuities affect our understanding of solar wind turbulence?
17:00	Simon Thomas	The 22-Year Hale Cycle in Cosmic Ray Flux - Evidence for Direct Heliospheric Modulation



## Posters

Anasuya Aruliah	QB50-CMAT2. Model predictions of the lower thermosphere in preparation for the launch of 50 cubesats in 2015
David Barnes	Modelling the thermospheric response to electric field variability from SuperDARN and Foster using the CMAT2 general circulation model
Carl Bryers	The electron heating rate due to pump-induced upper-hybrid resonance at EISCAT
Nathan Case	A Magnetopause Survey Using the Cluster Spacecraft
Robert Fear	High latitude observations of magnetotail plasma-sheet plasma in conjunction with a transpolar arc
Sarah Glauert	Recent developments in the BAS Radiation Belt Model used for SPACECAST forecasts
Heli Hietala	Shock-Shock Collision: Cluster Observations
Philip Hush	Solar Cycle Trends in Ground Activity Indices
Sarah James	New Online Access to Old Solar Data
Stephanie Jinks	Cassini Multi-instrument Assessment of the Open-closed Field-line Boundary of Saturn's Magnetosphere
David Johnson	Coupling between Earth's lower and upper atmospheres- steps towards whole atmosphere modelling
Robert Kidd	Geoeffectiveness of Interplanetary Coronal Mass Ejections as Drivers of Ground Level Magnetic Field Fluctuations
Khurom Kiyani	The dominant role of the Hall-term at sub-ion Larmor scale solar wind turbulence as seen by high-resolution measurements from Cluster
Mai Mai Lam	New evidence of an influence of the interplanetary magnetic field on middle-latitude surface atmospheric pressure
Ersilia Leonardis	First full quantitative characterization of intermittent multifractal turbulence in 3D particle-in-cell (PIC) simulations of magnetic reconnection.
Nigel Meredith	Global model of lower band and upper band chorus from multiple satellite observations
Gabby Provan	Planetary period oscillations at Saturn post-equinox
Amy Ronsley	SCANDI's insight into the Thermospheric Density Structure
Tim Spain	Modelling features of the thermosphere for satellite drag
Emma Woodfield	Electron Acceleration at Jupiter: Cyclotron-Resonant Interaction with Whistler-Mode Chorus Waves.
Tim Yeoman	SuperDARN observations of high-m ULF waves with curved phase fronts, and their interpretation in terms of transverse resonator theory