



Autumn MIST, 29th November, 2013

Royal Astronomical Society, Burlington House, Piccadilly

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| 10:30 | David Jackson (invited) | The Met Office Unified Model and its extension to the thermosphere |
| 11:00 | Tim Spain | Physical models, empirical models and data in the ATMOP project |
| 11:15 | Sam Tuttle (given by Betty Lanchester) | From optical emissions to auroral acceleration – using three models |
| 11:30 | John Plane | A global model of meteoric metals |
| 11:45 | Farideh Honary | Three-dimensional simulation of complex plasma environment and its application |
| 12:00 | Emma Woodfield | MIST Update |

LUNCH 12:15-13:30

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| 13:30 | Yulia Bogdanova | The Swarm Mission: overview |
| 13:45 | Thomas Conlon | Assessing the effect of spacecraft motion on single-spacecraft solar wind tracking techniques |
| 14:00 | Simon Good | The radial evolution of an ICME |
| 14:15 | Alice Foster | Studying Solar Wind Magnetic Reconnection Events using the Cluster Spacecraft's 4-point Measurement Capability |
| 14:30 | Heli Hietala | On the generation of magnetosheath high speed jets by bow shock ripples |

COFFEE & POSTERS 14:45-15:45

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| 15:45 | Ali Varsani | Small scale particle dynamics in Kelvin Helmholtz waves at the Magnetopause: High time resolution Cluster observations |
| 16:00 | Martin Archer | Magnetospheric 'magic' frequencies as standing magnetopause surface waves |
| 16:15 | Jasmine Sandhu | A statistical study of magnetospheric plasma mass loading using the Cluster spacecraft |
| 16:30 | Tobias Kersten | Losses in the radiation belts caused by EMIC waves |
| 16:45 | John Coxon | An analysis of the effect of solar wind drivers on the Birkeland current ovals observed by AMPERE |
| 17:00 | Marianna Felici | Evidence for the ionospheric outflow in Saturn's magnetotail |



Posters

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| Anasuya Aruliah | Large, sustained vertical winds in the magnetic cusp |
| Sarah Badman | Saturn's auroral dynamics during the 2013 observing campaign: in situ and remote observations |
| Patrick Cannon | A Finite-Difference Time-Domain Model of Electromagnetic Wave Interaction with an Ionospheric Plasma |
| Gareth Dorrian | Spherical Harmonic Analysis and Climatological Averaging of SuperMAG Data |
| Rob Fear | The interaction between transpolar arcs and cusp spots |
| Colin Forsyth | In-situ spatio-temporal measurements of the detailed substructure of the substorm current wedge and its evolution |
| Claire Foullon | Foreshock Dynamics Controlled by Hot Flow Anomaly: Relation between Dawn and Dusk Sector Events |
| Sarah Glauert | Modelling the high-energy electron flux throughout the radiation belts using the BAS Radiation Belt model |
| Adrian Grocott | The influence of IMF clock angle timescales in controlling the nature of high-latitude ionospheric convection |
| Caitriona Jackman | Saturn's magnetospheric dynamics: A study of tail reconnection signatures |
| Lauren Jeska | Multiple-Spacecraft Density Measurements of Turbulence in the Fast Solar Wind: Preliminary Findings |
| Khurom Kiyani | Wavenumber anisotropy in spectra, statistics and scaling in the turbulent solar wind using a locally defined background magnetic field |
| Mai Mai Lam | Mechanisms by which the interplanetary magnetic field influences polar and mid-latitude surface atmospheric pressure |
| Calum Meredith | Saturn's dayside UV auroras: Evidence for morphological dependence on the direction of the upstream interplanetary magnetic field |
| Tracy Moffat-Griffin | Observations of mesospheric gravity waves from a ship-borne imager |
| Dave Nunn | Numerical Modelling of non linear wave particle interactions in oblique whistlers |
| Kareem Osman | Proton Kinetic Effects and Turbulent Energy Cascade Rate in the Solar Wind |
| Kareem Osman | Anisotropic Intermittency of Magnetohydrodynamic Turbulence |
| Gabrielle Provan | Planetary Period Oscillations in Saturn's magnetosphere: Comparison of magnetic oscillations and SKR modulations in the post-equinox interval |
| Owen Roberts | Observation of an Alfvén vortex in the solar wind at ion kinetic scales |
| Aliyuthuman Sadhique | Modelling Total Electron Content (TEC) in equatorial Plasmasphere utilising electron density data from Double Star (TC1) mission |
| Ali Sulaiman | The Magnetic Structure of Saturn's Magnetosheath |
| Anne Wellbrock | Density profiles of different negative ions mass groups at Titan observed by Cassini's CAPS electron spectrometer |
| Japheth Yates | Jovian thermospheric response to multiple solar wind shocks |