Thursday May 20

9:30 -	10:00	Welcome and Registration
10:00 -	10:20	D. Kong, K. Zhang, G. Schubert (Exeter and UCLA) The shape of two-layered rapidly rotating planets
10:20 -	10:40	K. Chan, K. Zhang, X. Liao (Hong Kong and Exeter) On librationally driven flow in planetary ellipsoidal cores
10:40 -	11:00	Phil Livermore, Rainer Hollerbach (Leeds) MHD models of the Earth's core at extremely low viscosity
11:00 -	11:40	Coffee Break
11:40 -	12:00	Andrew Baggaley (Newcastle) Magnetic structures produced by the kinematic and saturated small-scale dynamo
12:00 -	12:20	Katy Richardson, Mike Proctor (Cambridge) Effects of alpha-effect fluctuations on simple nonlinear dynamo models
12:20 -	12:40	Binod Sreenivasan, Chris Jones (Leeds) Dipole generation and subcritical behaviour in the geodynamo
12:40 -	1:00	Piotr Boronski, Chris Jones (Leeds) Strongly stratified dynamos in spherical shells: a numerical study
1:00 -	2:20	Lunch
2:20 -	2:40	Nicolas Leprovost (Sheffield) Stellar dynamo: no need for rotation?
2:40 –	3:00	Laurene Jouve, Mike Proctor, Geoffroy Lesur (Cambridge) Buoyancy-induced time delays in Babcock-Leighton flux-transport dynamo models
3:00 -	3:20	Tina Davies, David Hughes (Leeds) Dynamo action driven by magnetic buoyancy
3:20 -	3:40	Krzysztof Mizerski, David Hughes (Leeds) Compressible Ekman-Hartmann boundary layers
3:40 -	4:20	Coffee Break
4:20 –	4:40	Jamie Douglas, Eun-jin Kim (Sheffield) Simulations of resistive tearing modes
4:40 -	5:00	Joanne Mason, Stanislav Boldyrev, Fausto Cattaneo (Chicago) Dynamic alignment in driven MHD turbulence
5:00 -	5:20	Fred Gent (Newcastle) Supernovae-driven turbulence in the ISM
5:20 -	5:40	Graeme Sarson (Newcastle) Deciphering solar turbulence from sunspots records
7:00 -	10:00	Dinner

Friday May 21

- **9:20 9:40** Anthony Yeates, Gunnar Hornig, A. Wilmot-Smith, D. Pontin (Dundee) The topology of magnetic braids
- **9:40 10:00** Gunnar Hornig (Dundee) Turbulent magnetic reconnection: Estimation of reconnected flux
- 10:00 10:20 Jorge Fuentes-Fernandez, Clare Parnell, Alan Hood (St Andrews) MHD dynamical relaxation of 2D magnetic X-points
- **10:20 10:40** Andrew Haynes, Clare Parnell (St Andrews) Separators and separator reconnection
- **10:40 11:00** Jingnan Guo (Glasgow) Is the 3-D magnetic null point with a convective electric field an efficient particle accelerator?
- 11:00 11:40 Coffee Break
- 11:40 12:00 Khalil Al-Ghafri, R.J. Morton, R. Erdelyi (Sheffield) Damping of magneto-acoustic oscillations in hot and dynamic coronal plasma
- **12:00 12:20** Rekha Jain (Sheffield) Axisymmetric absorption and scattering of p modes by thin magnetic flux tubes
- 12:20 12:40 Nicky Chorley (Warwick) Persistency of long period oscillations in sunspots
- 12:40 1:00 Gert Botha, Tony Arber, Valery Nakariakov (Warwick) Chromospheric resonances above sunspots
- 1:00 2:20 Lunch
- **2:20 2:40** Kuan Tam, Alan Hood (St Andrews) Coronal heating by Taylor relaxation
- **2:40 3:00** Anvar Shukurov (Newcastle) Turbulent magnetic fields and cosmic rays in galactic spiral arms

All talks will be in the School of Earth & Environment seminar room.

Lunches and coffee breaks will be in the School of Mathematics.

Dinner will be in the Woodhouse Room in University House.