

UKMHD 2011 Conference Schedule

16th June 2011

10:00-11:00 Registration (Tea and Coffee available)

11:00-11:10 Welcome

Session 1. Chair: Mike Proctor

11:10-11:30 Tamara Rogers (University of Arizona)

Limiting the Thickness of the Solar Tachocline

11:30-11:50 Rob Teed (University of Leeds)

Zonal Flow and Bursting in the Cylindrical Annulus

11:50-12:10 Phil Livermore (University of Leeds)

An Excitation Mechanism for Torsional Oscillations on the Tangent Cylinder

12:10-12:30 Dali Kong (University of Exeter)

On the Interior Profile of Jupiter's Differential Rotation

12:30-1:50 Lunch and Poster Session

Session 2. Chair: Paul Bushby

1:50-2:10 David Skinner (City University London)

Double Diffusive Magnetic Buoyancy Instability in a Quasi Two-Dimensional System.

2:10-2:30 Adrian Barker (University of Cambridge)

Magnetic Buoyancy Instabilities and Magnetic Flux Pumping at the Base of the Convection Zone.

2:30-2:50 Julian Mak (University of Leeds)

Shear Instabilities of the MHD Shallow Water Equation.

2:50-3:10 Youra Taroyan (Aberystwyth University)

Alfvén Instability of Flux Tubes with an Isothermal Flow.

3:10-3:50 Refreshments

Session 3. Chair: David Hughes

3:50-4:10 Matthew Buckley (Newcastle University)

Localised States in Magnetoconvection.

4:10-4:30 Benjamin Favier (Newcastle University)

Dynamo Action in Compressible Rotating Convection.

4:30-4:50 Keke Zhang (University of Exeter)

Planetary Libration and Dynamos.

5pm UKMHD Consortium meeting

Conference Dinner: From 7pm for 7.45pm start. STFC has kindly provided funding to cover the cost of some wine (and non-alcoholic alternative), which will be served at a reception event from 7pm.

17th June

Session 4. Chair: Rekha Jain

9:30-9:50 Kuan Tam (University of St Andrews)

The Role of Radiative Losses in Nanoflare Heating of Coronal Loops.

9:50-10:10 Gert Botha (University of Warwick)

Effect of Solar Chromospheric Neutrals on Equilibrium Field Structures.

10:10-10:30 Khalil Al-Ghafri (University of Sheffield)

The Effect of Variable Background on Oscillating Hot Coronal Loop due to Thermal Conduction.

10:30-11:10 Refreshments

Session 5. Chair: Gert Botha

11:10-11:30 Andrew Haynes (University of St Andrews)

Magnetic Skeletons in a Flux Emergence Experiment.

11:30-11:50 Peter Wyper (University of Sheffield)

Localised Fan Reconnection at a 3D Null Point.

11:50-12:10 Andrew Gascoyne (University of Sheffield)

Absorption of p -modes due to the excitation of MHD waves on thin magnetic flux tubes.

12:10-1:30 Lunch and Poster session

Session 6. Chair: Alan Hood

1:30-1:50 Andrew Smith (Newcastle University)

Nonlinear Dynamo Action in Nearby Galaxies Sustained by an Outflow.

1:50-2:10 Andrew Newton (University of Sheffield)

Statistical Properties of the Alpha Omega Dynamo.

2:10-2:30 Tina Davies (University of Leeds)

The Magnetic Buoyancy Instability in the Large-Wavenumber Limit.

2:30-3:10 Refreshments

Session 7. Chair: Lara Silvers

3:10-3:30 Anthony Yeates (University of Dundee)

New Constraints on Magnetic Relaxation.

3:30-3:50 David Tsiklauri (Queen Mary, University of London)

Heating of the Solar Chromosphere by Electromagnetic Wave Absorption in a Plasma Slab Model.

3:50-4:00 Closing Remarks