

UK MHD 95

St. Andrews University, Mathematical Institute

Programme

Friday 19 May

VENUE: Lecture Theatre B (1st Floor)

Chair: Bernie Roberts

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| 10.30-11.00 | COFFEE (Seminar Room 1A, Ground Floor) |
| 11.00-11.20 | Alastair Rucklidge (Cambridge)
The Shearing Instability in Three-dimensional Magnetoconvection. |
| 11.20-11.40 | Paul Coffey (Newcastle)
The Effects of Bumps Upon Magnetoconvection |
| 11.40-12.00 | Glenn Greed (Exeter)
Two and Three Dimensional Convection in a Rotating Annulus. |
| 12.00-12.20 | Mitchell A Berger (University College London)
Cascades in MHD turbulence in the presence of a mean field. |
| 12.20-12.40 | Axel Brandenburg (Nordita)
Dynamo generated turbulence – the origin of turbulence in discs |
| 12.40-13.00 | Paul Dellar (Cambridge)
Blob dynamics in the Earth's outer core. |
| 13.00-14.15 | LUNCH |

Chair: Andrew Soward

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| 14.15-14.35 | David Gubbins (Leeds)
The Geodynamo: Help from observations |
| 14.35-14.55 | Alexander Anufriev & Sergey Starchenko (Newcastle)
Boundary conditions for the Geodynamo problem in the inviscid limit. |
| 14.55-15.15 | Atta Chui (Cambridge)
The minimum energy state of a magnetic flux rope: |
| 15.15-15.35 | Konrad Bajer (Cambridge)
Asymptotic theory of stretched flux tubes. |
| 15.35-15.55
16.25 - 16.45 | Richard R. Ogden (Glasgow)
Taylor's Constraint in a Rapidly Rotating Cylindrical Annulus
of Electrically Conducting Fluid. |
| 15.55-16.15 | TEA |

Chair: David Fearn

16.15-16.35

~~16.45~~ 17.05

Thomas Neukirch (St. Andrews)
Self-consistent analytical 3D MHD equilibria

16.35-16.55

~~17.05~~ 17.30

Apollonia Schonfelder (St. Andrews)
Current Sheet Prominence Models in Twisted Flux Tubes.

16.55-17.15

~~17.25~~ 17.45

Ken Hutcheson (Glasgow)
Some general stability properties of toroidal magnetic fields.

17.15-17.35

~~17.45~~ 18.05

Chris Jones (Exeter)
On small Roberts number magnetoconvection in rapidly rotating systems.

17.35

CLOSE

Saturday 20 May

Chair: Eric Priest

9.00-9.20

Ralf Kaiser (Universitaet Bayreuth)
On the invisible dynamo.

9.20-9.40

R.G.Davis (Edinburgh)
Geomagnetic determination of quasi-steady flow at the surface of the Earth's core in the frozen-flux approximation.

9.40-10.00

Luca Del Zanna (St. Andrews)
Dynamic MHD equilibria. An application to solar quiescent prominences.

10.00-10.20

Stephen Drew (Exeter)
Compressible convection in a rapidly rotating fluid layer.

10.20-10.40

Ian Mann (St. Andrews)
Finite Lifetime of Ideal Poloidal Alfvén Waves.

10.40-11.10

COFFEE

Chair: Alan Hood

11.10-11.30

Louis Tao (Cambridge)
On the suppression of thermal conduction by magnetic fields

11.30-11.50

Klaus Galsgaard (St. Andrews)
Numerical 3D MHD: Null Points and Reconnection.

11.50-12.10

Graeme Sarson (Universitaet Bayreuth)
The interaction of differing azimuthal modes in the induction of magnetic fields

12.10-12.30

Andrew McLeod (Newcastle)
Instability of Twisted Fields to Magnetic Buoyancy