MHD MEETING, LEEDS, MAY 17-18, 1991 - PROGRAMME

Talks will be held in Teaching Lab 3 (TL3) on level 10 (top floor) of the Earth Sciences Department. Tea and coffee will be served in the Common Room on level 8.

Friday, 17th May

10.00-10.25 Coffee

D.G.

Morning Session: Chairman - ~~Keith Moffatt~~

10.25 - Chris Jones
Nonlinear $\alpha\omega$ Dynamos in in a Duct.

10.50 - Rainer Hollerbach
α-effect Dynamos and Taylor's Constraint in the Asymptotic Limit of Small Viscosity.

11.15 - Isaac Klapper
On Kinematic Fast Action in a Perturbed Cellular Flow.

11:40 - Carlo Barenghi
Nonlinear Geodynamo Models in a Rotating Spherical Shell.

12.05 - Keke Zhang
~~*A Model of the Compositionally-driven Geodynamo.*~~
Rap. rot. conv.

12.30 - 1.30 Lunch

Afternoon Session: Chairman - Andrew Soward

1.30 - Mike Proctor
Could the Solar Cycle be a Manifestation of Dynamo Wave Packets?

1.55 - Richard Jennings
Evolution of a Strong Toroidal Magnetic Field at the Base of the Solar Convection Zone.

2.20 - Eric Priest
Mechanisms of Coronal Heating.

2.45 - David Hughes
What is a Stellar Dynamo?

3.10 - Nigel Weiss
Symmetry-breaking in Stellar Dynamos.

3.25 - Paul Matthews
Compressible Convection with an Oblique Magnetic Field.

3.50 - Tea and Poster Session

Wolfram Hirsching & Johannes Wicht
Dynamo Models with Stagnant Layer Motivated by D".

Partha Joarder
Oscillation in Solar Prominances.

Dick Waddington
The Geomagnetic Field in 1985 and 1980.

Evening Session: Chairman - Jack Jacobs

5.00 - A Brandenburg
Dynamo Action in Stratified Convection with Overshoot.

5.25 - Stephen Drew
Thermal Convection in a Spherical Shell with a Variable Radius Ratio.

5.50 - Andrew Jackson
The Large-scale Geostrophic Flow at the Core Surface.

6.15 - Robert Davis
Constant Velocity Models of Flow at the Core Surface 1915-75.

6.40 - David Gubbins
Convection Driven by Lateral Temperature Variations and Morphology of the Geomagnetic Field.

9.00 Assemble at Hansa's Restaurant.

Saturday 18 May

Morning Session: Chairman - Jean-Louis Le Mouël

9.00 - Atta Chui & Keith Moffatt
Minimum Energy Magnetic Fields with Toroidal Topology.

9.25 - Andrew Gilbert
Magnetic Field Evolution in Chaotic Models.

9.50 - Alastair Rucklidge
Chaos in Models of Magneto-convection.

10.15 - David Fearn
Resistive Instability and the Magnetostrophic Approximation.

10.40 - Werner Weiglhofer
Ideal and Resistive Instability in a Sphere.

11.05 Coffee

Morning Session: Chairman - Nigel Weiss

11.25 - Ichi Yano (Invited)
Asymptotic Theory of Thermal Convection in Rapidly Rotating Systems.

11.50 - Carolyn Sellar
Magnetoconvection in a Rapidly Rotating Spherical Shell.

12.15 - Leo Clifford
Thermal Instabilities - A WKB Approach.

12.40 - ~~Richard Rijnbeek~~
~~*MHD Analysis of Time-dependent Reconnection.*~~
Quasi-static fields in collisionless plasma

1.05 Close