

MHD Meeting 1994

The meeting will be held in Seminar Room A of the Department of Applied Mathematics and Theoretical Physics, Silver Street, Cambridge.

Programme

Thursday 26th May

1:30	N.O. Weiss (Cambridge)	Convection in Sunspot Umbrae
1:50	K. Zhang (Exeter)	Hydromagnetic Instabilities Driven by the Ekman-Hartmann Layer in a Rapidly Rotating Sphere
2:10	P.G. Watson (Cambridge)	Magnetoconvection in Containers with Oblique Sidewalls
2:30	S.J. Drew (Exeter)	Compressible Convection in a Rotating Spherical Shell
2:50	K. Hutcheson (Glasgow)	Nonlinear Magnetic Instabilities in the Earth's Outer Core
3:10	D.W. Hughes (Newcastle)	Magnetic Buoyancy, Vorticity and the Formation of Sunspots
3:30	S.M. Tobias (Cambridge)	Nonlinear Solar Dynamo Waves
3:50	Tea	
4:10	M. Berger (UCL)	Three Dimensional Reconnection
4:30	R.W. Walsh (St Andrews)	How to Keep the Corona Hot
4:50	R. Lothian (Manchester)	Constant-alpha Coronal Fields
5:10	D.R. Moore (Imperial)	The Expulsion of a Magnetic Field by a Hexagonal Convective Eddy
5:30	J. Love (Leeds)	Simple Kinematic Dynamos
5:50	C.C. Sellar (Glasgow)	Towards a Self-consistent Geodynamo
6:10	A. Longbottom (Exeter)	Linear Magnetoconvection in a Rotating Spherical Shell

Friday 27th May

9:00	I. Mann (St Andrews)	Coupling of Fast and Alfvén Waves in the Earth's Magnetosphere
9:20	S. Oughton (St Andrews)	3-D MHD Turbulence with a Mean Magnetic Field
9:40	G. Vekstein (St Andrews)	Steady Magnetic Reconnection in the X-type Geometry
10:00	A. Lazarian (Cambridge)	Magnetic Field Studies through Polarisation Measurements
10:20	M. Nagata (Birmingham)	Nonlinear Solutions of Modified Plane Couette Flow in the Presence of a Transverse Magnetic Field
10:40	Coffee	
11:00	G. Inverarity (St Andrews)	Turbulent Coronal Heating
11:20	R. Jain (St Andrews)	Solar Cycle Variations in p-modes and Chromospheric Magnetism
11:40	G.B. Laing (St Andrews)	Dissipation of Fast Ducted Magnetoacoustic Waves
12:00	S. Turner (Birmingham)	Model Dependency of Thermal Instability
12:20	L. Fradkin (Cambridge)	Chaotic Advection by Many Vortices
12:40	A.D. Gilbert (Exeter)	The Flux Conjecture
1:00	Lunch	
2:00	C.A. Jones (Exeter)	Self-consistent Geodynamo Models
2:20	R. Davis (Leeds)	Laboratory Experiments on Low Prandtl Number Convection in a Rapidly Rotating Fluid Shell
2:40	R.R. Kerswell (Newcastle)	On Internal Shear Layers in the Outer Core
3:00	D. Jault (Newcastle)	Taylor's Condition Reached with Alfvén Torsional Oscillations
3:30	A. Jackson (Oxford)	New Views of Core Motions
4:00	Tea	
4:30	M. Schüssler (Freiburg)	Dynamics of Magnetic Flux Tubes in the Solar Interior