

MHD MEETING 1992

The meeting will be held in Room 3b of the Department of Mathematics, University of Glasgow.

PROGRAMME

Friday 15th May 1992

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|------|--------------------------|--|
| 1.30 | A. Wright | MHD wave coupling in inhomogeneous media. |
| 1.50 | R. Rijnbeek | MHD analysis in a Lagrangian coordinate system. |
| 2.10 | N. Strachan | Classes of steady-state 2D reconnection. |
| 2.30 | A. Longbottom | Bounds on the stability of 3D equilibria. |
| 2.50 | R. Fiedler | Modelling of coronal arcades and prominences. |
| 3.10 | P. Joarder | Theoretical models of prominence oscillation. |
| 3.30 | TEA | |
| 4.10 | P. Edwin | Ion-acoustic waves. |
| 4.30 | A. Hood | Applications of WKB to the stability of coronal plasmas. |
| 4.50 | A.M. Soward
& S. Ewen | Amplitude equations governing rotating magnetoconvection at small Elsasser number. |
| 5.10 | K. Zhang | Hydrodynamic and magnetohydrodynamic spherical oscillations. |
| 5.30 | C.A. Jones | Axisymmetric cylindrical convection in a twisted magnetic field. |

Saturday 16th May, 1992

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| 9.00 | R. Hollerbach | A geodynamo model incorporating a finitely conducting inner core. |
| 9.20 | M.R.E. Proctor | Dynamo action for two-dimensional time dependent velocity fields at high R_m . |
| 9.40 | S. Drew | Flux expulsion into a conducting mantle. |
| 10.00 | W. Weiglhofer | Magnetic instabilities and differential rotation. |
| 10.20 | C. Lamb | Weakly nonlinear magnetic instability in a cylindrical annulus. |
| 10.40 | COFFEE | |
| 11.20 | D. Hughes | Steady convection with two stabilising gradients. |
| 11.40 | P.C. Mathews | Compressible magnetoconvection in three dimensions. |
| 12.00 | A.M. Rucklidge | Oscillations and secondary bifurcations in nonlinear magnetoconvection. |
| 12.20 | A. Lazarian | MHD turbulence investigation. |
| 12.40 | R.L. Ricca
& H.K. Moffatt | The helicity of a knotted (vortex or magnetic) tube. |