

Autumn Term 2009/2010

Monday 12 October 2009

Mathematics of Nuclear Fusion

Organisers: Bogdan Hnat (Physics), Colm Connaughton, Sergey Nazarenko, and Florian Theil

All talks will be in Room B3.02 Mathematics Institute, Zeeman Building

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|-------------|---|
| 13:00-13:55 | S. Cowley (Culham) <i>Basic facts and equations of nuclear fusion</i> |
| 14:00-14.25 | R. Dendy (Warwick) <i>UK and Warwick fusion research</i> |
| 14.30-14.55 | B. Hnat (Warwick) <i>Transport in toroidal geometry</i> |
| 15:00-15:25 | S. Nazarenko (Warwick) <i>Fluid models of plasma turbulence</i> |
| 15:30-16:00 | Tea in the Mathematics Institute Common Room |
| 16:00-16.35 | A. Schekochihin (Oxford) <i>Gyro-Kinetic theory for fusion plasmas</i> |
| 16.40-17.15 | A. Peters (Warwick) <i>Numerical solutions of gyro-kinetic equations</i> |
| 17.20-17.35 | J. Dewhurst (Warwick) <i>The effects of non-uniform magnetic field strength on density flux and test particle transport in drift wave turbulence</i> |
| 17.40-17.55 | G. Szepesi (Warwick) <i>Lie transforms in gyro-kinetics</i> |
| 18:00 | Wine and snacks in the Mathematics Institute Common Room |
| 19:00 | Dinner on Campus |

Talks will be held in the Mathematics Institute, Zeeman Building, University of Warwick
For detailed MIR@W programmes please see our website: go.warwick.ac.uk/miraw/days