



# Workshop on Turbulence

IISc Mathematics Initiative

Department of Mathematics, Indian Institute of Science, Bangalore



| January 07 - 31, 2008                                   |                             |             |             |             |                         |                 |             |             |  |
|---------------------------------------------------------|-----------------------------|-------------|-------------|-------------|-------------------------|-----------------|-------------|-------------|--|
| Venue : Lecture Hall I, Department of Mathematics, IISc |                             |             |             |             |                         |                 |             |             |  |
| Registration : 8.30 am to 9.00 am                       |                             |             |             |             |                         |                 |             |             |  |
| Welcome : 09:15 am                                      |                             |             |             |             |                         |                 |             |             |  |
| Date                                                    | 09:30–10:30                 | 10:30–11:00 | 11:00–12:00 | 12:00–13:00 | 13:00–14:30             | 14:30–15:30     | 15:30–16:00 | 16:00–17:00 |  |
| 07.01.2008                                              | RN                          | Tea         | RN          |             | Lunch                   | ONR             | Tea         | JHA         |  |
| 08.01.2008                                              | KRS                         |             | KRS         | KRS         |                         | ONR             |             | ONR         |  |
| 09.01.2008                                              | RN                          |             | RN          |             |                         | RP              |             | RP          |  |
| 10.01.2008                                              | JHA                         |             | ONR         | JHA         |                         | RP              |             | RP          |  |
| 11.01.2008                                              | ONR                         |             | RP          | RP          |                         | RN              |             |             |  |
| Saturday (12th) and Sunday (13th) Holiday               |                             |             |             |             |                         |                 |             |             |  |
| 14.01.2008                                              | BE                          | Tea         | MJ          | BE          | Lunch                   | AR              | Tea         | MJ          |  |
| 15.01.2008                                              | TRIP TO BELUR AND HALEBEEDU |             |             |             |                         |                 |             |             |  |
| 16.01.2008                                              | NG                          | Tea         | BE          | BE          | Lunch                   | AR              | Tea         | RR          |  |
| 17.01.2008                                              | RR                          |             | NG          | MJ          |                         | AR              |             | MJ          |  |
| 18.01.2008                                              | NG                          |             | MJ          | NG          |                         | AR              |             | KG          |  |
| Saturday (19th) and Sunday (20th) Holiday               |                             |             |             |             |                         |                 |             |             |  |
| 21.01.2008                                              | MEB                         | Tea         | KG          | JB          | Lunch                   | LAB Visit (JHA) |             |             |  |
| 22.01.2008                                              | JB                          |             | MEB         | KG          |                         | MEB             | Tea         | KG          |  |
| 23.01.2008                                              | JKB                         |             | JKB         | KG          |                         | MEB             |             | JB          |  |
| 24.01.2008                                              | JKB                         |             | JKB         | KG          |                         | MKV             |             | MKV         |  |
| 25.01.2008                                              | JKB                         |             | MKV         | MEB         |                         | JB              |             | MKV         |  |
| Saturday (26th) and Sunday (27th) Holiday               |                             |             |             |             |                         |                 |             |             |  |
| 28.01.2008                                              | KK                          | Tea         | JB          | RG          | Lunch                   | BK              | Tea         |             |  |
| 29.01.2008                                              | KK                          |             | RG          | MEB         |                         | BK              |             | RG          |  |
| 30.01.2008                                              | RG                          |             | RG          | Lunch       | Lab Visit (KRS, JNCASR) |                 |             |             |  |
| 31.01.2008                                              | RG                          |             |             | JB          | Concluding Session      |                 |             |             |  |

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|--------------------------------|--------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------|
| <b>RN</b> : R. Narasimha       | Introduction to Turbulence                             | <b>KG</b> : K. Gawedzki          | Passive Scalar Turbulence                                               |
| <b>JHA</b> : Jaywant H. Arkeri | Experimental Fluid Dynamics                            | <b>JKB</b> : J. K. Bhattacharjee | Renormalisation Group Methods in Turbulence                             |
| <b>ONR</b> : O.N. Ramesh       | Introductory Fluid Dynamics                            | <b>JB</b> : J. Bec               | Burgers Turbulence and Inertial Particles in Turbulent Flows            |
| <b>BE</b> : B. Eckhardt        | Transition to Turbulence in Pipe Flows                 | <b>MKV</b> : M. K. Verma         | Magnetohydrodynamic Turbulence                                          |
| <b>NG</b> : N. Gupta           | Introduction to nonlinear Dynamics and Routes to Chaos | <b>BK</b> : B. Khushalani        | Vortex Dynamics                                                         |
| <b>RR</b> : R. Ramaswamy       | Taylor-Couette flow                                    | <b>KK</b> : K. Kumar             | To be announced                                                         |
| <b>MJ</b> : M.H. Jensen        | The Dynamical Systems Approach to Turbulence           | <b>RG</b> : R. Govindarajan      | Boundary-Layer Theory and Flow Instabilities                            |
| <b>AR</b> : A. Rai Choudhuri   | Magnetohydrodynamics and the Solar Dynamo Problem      | <b>RP</b> : Rahul Pandit         | Overview of Statistical Properties of Homogeneous, Isotropic Turbulence |
| <b>MEB</b> : M.E. Brachet      | Recent Advances in Studies of the Euler Equation       | <b>KRS</b> : K R Sreenivas       | Convection and its measurement                                          |