

Workshop / summer school on Waves and instabilities in geophysical and astrophysical flows

Island of Porquerolles, France,
25-31 may 2009

Objectives:

The goal of this workshop is to bring together leading experts from astrophysical and geophysical communities, in order to discuss flows where stratification, rotation and magnetic field play an important role. Emphasis will be put on simple models of oceans, atmosphere and planet interiors, where basic phenomena such as waves and instabilities can be described theoretically.

Topics:

- Instabilities in stratified and rotating flows
- Wave-vortices coupling in geophysics
- Hydrodynamics of planetary cores and stars
- Waves and instabilities in accretion disks
- Generation of magnetic field by dynamos
- MHD waves in stellar systems

Courses:

- P. Billant, *Ecole Polytechnique, France*
- G. Ogilvie, *Cambridge, UK*
- M. Rieutord, *Obs. Midi-Pyrénées, France*
- K. Winters, *Scripps, U.C. San Diego, USA*
- A. Tilgner, *Univ. Göttingen, Germany*

Invited lectures:

- J. Aurnou, *U.C. Los Angeles, US*
- F. Busse, *Univ. Bayreuth, Germany*
- P. Cardin, *Univ. Grenoble, France*
- T. Dauxois, *ENS Lyon, France*
- E. Dormy, *IPG-ENS Paris, France*
- P. Marcus, *U.C. Berkley, US*
- M. Montgomery, *NPS, Monterey, US*
- G. Rüdiger, *AIP, Potsdam, Germany*

Organising committee:

- Michaël Le Bars
- Stéphane Le Dizès
- Patrice Le Gal
- Patrice Meunier

Deadline:

January 31st 2009

Application forms can be downloaded at
www.irphe.univ-mrs.fr/~meunier/Workshop.html

