

Monday, October 4th

10.00 *Bienvenue/Welcome*

10.15 Claude Cambon (LMFA, Ecole Centrale de Lyon, France)
From 'RDT' to pseudo-spectral DNS for rotating stratified shear flows.

10.45 Alexandre Pieri (LMFA, Ecole Centrale de Lyon, France)
Baroclinic instability and developed turbulence.

11.30 **Coffee break**

11.45 Jose M. Redondo (UPC, Barcelona, Spain)
Vortex decay in rotating & stratified flows including conditional sampling
of elliptic and hyperbolic areas and their role on Richardson's generalized law.

12.15 Discussions

12.30 **Lunch**

14.00 Informal discussions on the morning topics.

15.45 **Coffee break**

16.00 Working sessions

19.30 **Dinner**

Tuesday October 5th

9.30 Thierry Lehner (Observatoire de Paris, Meudon, France)
Introduction to precessional flows.

9.45 Patrice Le Gal (IRPHE, Marseille, France)
Tides in geophysics: Elliptical instability and forcing by zonal winds.

10.30 **Coffee break**

10.45 Aziz Salhi (Lab. de Physique, Tunis, Tunisia)
Rotating flows with precession and MHD: A linear study.

11.30 Fabien S. Godeferd (LMFA, Ecole Centrale de Lyon, France)
Short review of current and future DNS of distorted turbulence at LMFA.

12.15 Discussions

12.30 **Lunch**

14.00 Informal discussions on the morning topics.

16.00 **Coffee break**

19.30 **Dinner**

Wednesday October 6th

- 9.30** Kai Schneider (M2P2 & CMI, Université de Provence, Marseille, France)
From Craya to Crayalets using wavelets.
- 10.00** Aurore Naso (LMFA & Ecole Normale Supérieure de Lyon, France)
Statistical mechanics for axisymmetric Euler equations: Towards von Kármán flows.
- 10.45** **Coffee break**
- 11.00** George Khujadze (Fachgebiet Strömungsdynamik, TU Darmstadt, Germany)
Aerodynamic sound generation by turbulence in plane Couette flow.
- 11.45** Wouter Bos (LMFA, Ecole Centrale de Lyon, France)
Some perspectives in MHD and plasmas.
- 12.15** Discussions
- 12.30** **Lunch**
Calanques
- 19.30** **Dinner**

Please note that all sessions will take place in the Annexe building of CIRM.

For details we refer to the CIRM web site: www.cirm.univ-mrs.fr