

INSTABILITIES IN GEOPHYSICAL FLUIDS

ROMA, MAY 14 -15 2024

ACCADEMIA DEI XL, SCUDERIE VECCHIE DI VILLA TORLONIA

THIERRY DAUXOIS, CORRADO DE CONCINI, THIERRY PAUL, LAURE SAINT-RAYMOND ORG.

Program

Martedì 14/05/2024

9.00 **Benvenuto** / **Bienvenue** / **Willkommen**/ **Welcome**

09.30 - 10.30 **Mini course Sylvain Joubaud** *Instabilities of internal gravity wave beams*
pausa caffè / pause-café

11.30 - 12.30 **Mini course Sylvain Joubaud** *(continued)*
déjeuner / pranzo

15.00 - 15.25 **Costanza Rodda** *The baroclinic instability in laboratory experiments: from atmospheric dynamics to climate change*

15.25 - 15.45 *discussion*

15.45 - 16.10 **Michele Dolce** *Long-time behaviour in the 2D inhomogeneous incompressible fluids near a stably stratified Couette flow*

16.10 - 16.30 *discussion*

16.30 - 16.55 **Charlotte Dietze** *Forcing and dissipation of waves with propagators of degree zero*

16.55 - 17.15 *discussion*

cena / dîner

Mercr(ol)edì 15/05/2024

09.30 - 10.30 **Mini course David Gérard-Varet** *Recent mathematical results on boundary layer theory*
pausa caffè / pause-café

11.30 - 12.30 **Mini course David Gérard-Varet** *(continued)*
déjeuner / pranzo

15.00 - 15.25 **Stéphane Le Dizes** *Critical slope singularities of gravito-inertial waves*

15.25 - 15.45 *discussion*

15.45 - 16.10 **Riccardo Montalto** *Nonlinear quasi-periodic oscillations in Fluid Mechanics*

16.10 - 16.30 *discussion*

16.30 - 16.55 **Miguel Onorato** *Wave Turbulence and thermalization in the Fermi-Pasta-Ulam-Tsingou chain*

16.55 - 17.15 *discussion*

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FINE / **FIN** / **ENDE**/ **END**