

COLLOQUIUM

«THERMAL CONVECTION AND THERMODIFFUSION IN MICROGRAVITY»

Le Havre, 26-27 November 2025

LOMC, UMR 6294, CNRS-Université Le Havre Normandie

53, rue de Prony; 76600 LE HAVRE

DAY 1

ARRIVAL / WELCOME / COFFEE			09:00-09:50
Speaker	Institute	Title	Time
Christoph EGBERS	LAS/BTU	Fluid Mechanics under microgravity conditions	10:00-10:40
Laurette TUCKERMAN	PMMH/ESPCI	Convection in a rapidly rotating spherical shell: Newton's method using implicit Coriolis integration	10:40-11:20
Yousuf MOHAMMED	LAS/BTU	Numerical investigation of solid-body rotating convection in a spherical shell using the pseudo-spectral code MagIC	11:20-11:50
Simon KUHNE	LAS/BTU	Mean temperature evaluation using Wollaston interferometry in rotating annulus experiment	11:50-12:10
LUNCH AT THE RESTAURANT "GRANDS BASSINS"			12:30-13:30
Fabrizio CROCCOLO	LFCR /UP	The giant fluctuations ESA project	14:00-14:40
Henri BATTALER	LFCR /UP	Double diffusion convection of superimposed aqueous solutions	14:40-15:20
COFFEE BREAK + LABORATORY VISIT			15:30-17:00
Antoine MEYER	LOMC	Simulation of the shadowgraph method for thermo-electrically induced flow	17:00-17:30
Philippe BELTRAME	EMMA/UA	Ratchet effect : 3 D modelling of airborne microparticle transport through a microstructure	17:30-18:00
DINER AT RESTAURANT "GRAND LARGE"			19:30-22:30
END OF DAY 1			

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DAY 2

Speaker	Institute	Title	Time
Kuschal NAGARAJ	LAS/BTU	Convection in a fluid layer driven by internal dielectric heating	09:00-09:30
Olivier CRUMEYROLLE	LOMC/ULHN	Influence of initial condition and wall properties on TEHD convection in parabolic flights	09:30-10:00
COFFEE BREAK			10:00-10:20
Anupam HIREMATH	LOMC/ULHN	Thermomagnetic convection in ferrofluids	10:20-10:50
Peter SZABO	LAS/BTU	Dielectrophoretic-driven convection in spherical Taylor-Couette flow	10:50-11:30
Innocent MUTABAZI	LOMC/ULHN	Thermoelectric convection in cylindrical annulus	11:30-12:00
INFORMATIONS EXCHANGES			12:00-12:20
LUNCH AT THE RESTAURANT “GRANDS BASSINS”			12:30-14:00
FREE DISCUSSION			14:00-16:00
END OF DAY 2			

LAS/BTU: Lehrstuhl für Aerodynamik und Strömungslehre (Department of Aerodynamics and Fluid Mechanics, Brandenburg University of Technology Cottbus - Senftenberg)

LOMC/ULHN : Laboratoire Ondes et Milieux Complexes, UMR 6294 CNRS/Université Le Havre Normandie

LFCR /UP : Laboratoire des Fluides Complexes et leurs Réservoirs, UMR 5150, Université de Pau

EMMA/UA : Environnement Méditerranéen et Modélisation des Agro-Hydrosystèmes, UMR 1114 INRAE/Université d'Avignon