

JEFS - Journées Écoulements & Fluides - Saclay

lundi 23 juin 2025

Mot d'accueil (09:25 - 09:30)

Présentations (09:30 - 10:50)

time	[id] title	presenter
09:30	[45] Simulation numérique 3D turbulente de bulles de Taylor (20 minutes)	EYSSERIC, Baptiste (CEA Paris Saclay)
09:50	[53] Two-fluid Compressible Flows with Multiresolution-based Mesh Adaptation (20 minutes)	WU, Gen (LISN, Université Paris-Saclay)
10:10	[48] Relation between macroscopic and microscopic contact angles of sessile droplets on patterned surfaces (20 minutes)	DUPUY, Magali (CentraleSupélec)
10:30	[65] Mechanism of air entrainment by an oblique jet (20 minutes)	GAICHIES, Théophile (LPS)

Pause café (10:50 - 11:20)

Présentations (11:20 - 12:40)

time	[id] title	presenter
11:20	[47] Boundary conditions for yield stress fluids in porous media: statistical properties and universality class (20 minutes)	TALON, laurent (Lab. FAST)
11:40	[55] Getting out of a tight spot: Cooperative unclogging of hydrogel particles in disordered porous media (20 minutes)	KAMATH, Sanjana (Department of Chemical and Biological Engineering, Princeton University, Princeton)
12:00	[66] Subgrid-stress experimental analysis based on second order structure functions in grid turbulence (20 minutes)	BEAUMARD, Paul (ONERA)
12:20	[50] Reduced order modeling and control of a fluidic pinball wake: An experimental investigation (20 minutes)	DESAI, Aditya (CNRS-LISN)

Buffet (12:40 - 14:00)

Présentations (14:00 - 15:20)

time	[id] title	presenter
14:00	[69] Self-similarity in the magnetic Rayleigh-Taylor instability (20 minutes)	M. BRIARD, Antoine (CEA DAM)
14:20	[54] Magnetic field reversals in numerical simulations of the Von Karman Sodium experiment (20 minutes)	BOUSQUET, Rémi (LISN)
14:40	[44] Event-Based Cameras for Multiple Scale (and Cost-Effective !) PIV Applications (20 minutes)	LANCHON, nicolas (SPEC - CEA Saclay)
15:00	[71] Addressing turbulent convection experimental data challenges in PINNs with appropriate physical sampling (20 minutes)	M. MRINI, Soufiane (LISN)

Pause café (15:20 - 15:40)

Présentations (15:40 - 17:10)

time	[id] title	presenter
15:40	[51] Numerical Modeling of Premixed Combustion and Flame Acceleration of Li-ion Battery Thermal Runaway Gases (20 minutes)	ALISON, Paul (Université Paris-Saclay, CEA, Service d'Études Mécaniques et Thermiques, 91191 Gif-sur-Yvette, France)
16:00	[64] Mixing induced by Faraday surface waves (20 minutes)	CASTILLO, Andrés (Centre Borelli / ENS Paris Saclay)
16:20	[56] Bio-convective transport for selective particle sorting (20 minutes)	NICOLAZO-CRACH, Victoria (Laboratoire FAST)
16:40	[62] Active Saffman--Taylor Viscous Fingering (20 minutes)	AURADOU, Harold

mardi 24 juin 2025

Présentations (09:30 - 10:50)

time	[id] title	presenter
09:30	[67] Frozen waves in the inertial regime (20 minutes)	GRÉA, Benoît-Joseph (CEA DAM)
09:50	[43] Surface wave amplification of a falling liquid film by a perforation (20 minutes)	Dr SATHYANATH, Rahul (Postdoctoral researcher, LGPM, CentraleSupélec)
10:10	[58] Orientation préférentielle de flotteurs dans des vagues: effets hydro-élastiques et corrections capillaires (20 minutes)	DHOTE, Basile (Laboratoire FAST)
10:30	[63] Réduction de modèle pour écoulements à surface libres (20 minutes)	Prof. BARBARULO, Andrea (CentraleSupélec) BECKERMANN, Max (Centralesupelec)

Pause café (10:50 - 11:20)

Présentations (11:20 - 12:40)

time	[id] title	presenter
11:20	[59] Avalanche of fiber-reinforced granular medium (20 minutes)	WIERZCHALEK, Ladislav (lab. FAST)
11:40	[60] Generation of tsunami waves by low density gravity flow (20 minutes)	KANE, Alexandre (Laboratoire Fast, Université Paris-Saclay)
12:00	[41] Fragmentation of a Cohesive Granular Aggregate Upon Impact (20 minutes)	DARBOIS TEXIER, Baptiste (Laboratoire FAST, CNRS, Université Paris-Saclay)
12:20	[46] Self-diffusion of single fibers immersed in a sheared granular medium (20 minutes)	M. CHAGUA ENCARNACION, kennedy nexon

Buffet (12:40 - 14:00)

Présentations (14:00 - 15:20)

time	[id] title	presenter
14:00	[49] High-Fidelity CFD Analysis of Transitional Flow Dynamics in a Dual-Bell Nozzle (20 minutes)	ALAJANGI, Pruthvi Raj (LMEE – Université Paris-Saclay -Evry)
14:20	[68] Instabilité d'écoulements turbulents cisailés (20 minutes)	DUGUET, Yohann (LISN-CNRS)
14:40	[40] Modeling Tsunamis from Dynamic Earthquake Sources: A High-Order Spectral Solver (20 minutes)	MELKIOR, Thomas (LMPS (Laboratoire de Mécanique Paris-Saclay), CNRS)
15:00	[57] Physics of Paragliding (20 minutes)	VALDECASA, Esteban (LadHyX)

Pause café (15:20 - 15:40)

Présentations (15:40 - 17:10)

time	[id] title	presenter
15:40	[52] Continuation-based pseudospectral PDE solvers for problems in fluid dynamics and fluid-structure interactions (20 minutes)	Dr AMLANI, Faisal (CNRS, Laboratoire de Mécanique Paris-Saclay (LMPS; U Paris-Saclay/ENS Paris-Saclay/ CentraleSupélec/CNRS))
16:00	[61] Turbulence-induced vibration of coaxial cylinders (20 minutes)	M. PLADO COSTANTE, Loucas (CEA)
16:20	[42] Large scale analysis of the von Kármán Sodium experiment using Proper Orthogonal Decomposition (20 minutes)	BOTEZ, Victor
16:40	[70] Suppression du vent et émission de panaches en convection turbulente rugueuse (20 minutes)	M. CARBONNEAU, Nathan (LISN)