

GDR Turbulence



Workshop on Numerical Modeling of Liquid-Vapor Interfaces in Fluid Flows
Institut Henri Poincaré, 12 - 13 december 2016
Program (01 dec 2016)

Monday 12 december

8h30 – 9h00	Welcome
9h00 – 9h45	Gérard Liger-Belair Effervescence in champagne and sparkling wines: Recent advances and future prospects
9h45 – 10h30	Arthur Talpaert Direct Numerical Simulation of Bubbles with Adaptive Mesh Refinement with Distributed Algorithms
10h30 – 11h00	Pause
11h00 – 11h30	Daniel Fuster
11h30 – 12h00	Dena Kazerani
12h00 – 12h30	Sébastien Tanguy
12h30 – 14h15	Lunch time
14h15 – 15h00	Stéphane Zaleski Numerical simulation of flows with sharp interfaces by the Volume-Of-Fluid method
15h00 – 15h45	Guillaume Bois Applications of the Front-Tracking algorithm of TrioCFD to turbulent bubbly flows in plane channels
15h45 – 16h30	Pause
16h30 – 17h00	Elie Hachem
17h00 – 17h30	Francois-Xavier Demoulin
17h30 – 18h00	Rémi Abgrall
18h00	End of Day 1

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Tuesday 13 december

9h00 – 9h45	Hélène Mathis	Modelling liquid-vapor phase change with metastable states
9h45 – 10h30	Richard Saurel	Diffuse interfaces with compressible fluids, phase transition and capillarity
10h30 – 11h00		Pause
11h00 – 11h45	Laurette Tuckerman	Numerical simulation of Faraday wave patterns
11h45 – 12h30	Marie Béchereau	Lagrange-Euler Lattice-Boltzmann Method And Its Application to Two-Fluid Flows Dynamics With Possibly High Density Ratio
11h45 – 12h30	Laurette Tuckerman	Numerical simulation of Faraday wave patterns
12h30 – 14h30		Lunch time
14h30 – 15h00	Laurent Martin Witkowski	
15h00 – 15h30	Saira Pinedac	
15h30 – 16h00	Bérénice Grec	Simulations of a heated fluid at low Mach number: modelling of phase transition and numerical strategies
16h00 – 16h30		Pause
16h30 – 17h00		End of Day 2