

Workshop: Vortices in fluids and superfluids. Geophysics and quantum physics flows.
September 23 - 24, LMRS, University of Rouen Normandy, France

	Monday 23/09, Seminar room M0.1	Tuesday 24/09, Seminar room M0.1	
08:00			08:00
08:30			08:30
09:00			09:00
09:30			09:30
10:00	(10:00-10:20) <i>Opening remarks</i>		10:00
	Weather modelling session	Geophysics modelling session	
10:30	(10:20-11:00) T. Sakajo : Topological Flow Data Analysis and its applications to atmospheric and ocean flows	(10:20-11:00) R. Antoine : Geophysical imagery on a chalk cliff in Normandy to detect saline intrusion	10:30
11:00	(11:00-11:40) L. Danaila : Effect of energy injection on jet-waves-random interactions across scales: theory	(11:00-11:40) G. Edde : Numerical modeling of air flows in an underground cavity connected to the surface by a shaft	11:00
11:30			11:30
12:00	(11:40-12:20) M. Fossa : Effect of energy injection on jet-waves-random interactions across scales, case study: 2003 summer heat wave	(11:40-12:20) B.E. Madir : Physics Informed Neural Networks for Heat Conduction with Phase Change	12:00
12:30			12:30
13:00	Lunch (1h30)	Lunch (1h30)	13:00
13:30			13:30
	Quantum physics session		
14:00	(14:00-14:40) M. Brachet : Neutron-superfluid vortices and proton-superconductor flux tubes: Development of a minimal model for pulsar glitches	Discussions	14:00
14:30			14:30
15:00	(14:40-15:20) M. Kobayashi : How to tie and stabilize a vortex knot and link		15:00
15:30	Coffee break (30 min)		15:30
16:00	(15:50-16:30) C. Tain : Influence of gauges in the time dependent Ginzburg-Landau model		16:00
16:30			16:30
17:00	(19:30--) Banquet		17:00
17:30			17:30