

Maths-Physics Meeting around Bose Einstein condensates

Schedule

	Wednesday November 30th	Thursday December 1st	Friday December 2nd
08:45	coffee and croissants	coffee and croissants	coffee and croissants
9:00 - 9:45	Alexander L. Fetter (Standord, USA) Free-expansion of turbulent Bose-Einstein condensate	Amandine Aftalion (Versailles, France) Two component condensates : phase separation, vortices and skyrmions	Jean Dalibard (Paris, France) Artificial gauge potentials for neutral atoms
10:00 - 10:45	Makota Tsubota (Osaka, Japan) Quantum Turbulence in Atomic Bose-Einstein Condensates	Norman Dancer (Sydney, Australia) Some Systems of Nonlinear Elliptic Equations	Francis Nier (Rennes, France) Artificial gauge and adiabatic ansatz for Bose-Einstein condensates
11:15 - 12:00	Clément Gallo (Montpellier, France) Eigenvalues of a nonlinear ground state in the Thomas-Fermi approximation	Muneto Nitta (Keio, Japan) Interaction of Vortices in BEC and QCD	Nigel Cooper (Cambridge, UK) Optical Flux Lattices for Ultracold Atomic Gases
12:15	lunch	lunch	lunch
13:30 - 14:15	Franco Dalfovo (Trento, Italia) Dynamics of dark solitons in superfluid Fermi gases	Thierry Jolicoeur (Orsay, France) On some exact fractional quantum hall states	Gilles Montambaux (Orsay, France) Berry phase, Dirac points in two-dimensional crystals
14:30 - 15:15	Yvan Martel (Versailles, France) Collision of solitons for nonintegrable generalized Korteweg de Vries equations	Natasha Berloff (Cambridge, UK) Vortices and solitary waves in nonequilibrium condensates	Bernard Helffer (Orsay, France) On Harper's equation : Historic and new questions
15:30 - 15:50		Sylvain Nascimbene (Paris, France) Experimental realization of strong effective magnetic fields in an optical lattice	
Poster session 16:00 - 16:20		Hannah Price (Cambridge, UK) Skyrmion-antiSkyrmion pairs in Ultracold Atomic Gases	
		Kazuya Fujimoto (Osaka, Japan) Counterflow instability and turbulent state for spin-1 spinor Bose-Einstein condensates	