

Waves, Coherent Structures, and Turbulence (WCST2019)

University of East Anglia, Norwich, UK

30th October – 1st November 2019

Time	Wednesday (30 th October 2019)	Thursday (31 th October 2019)	Friday (1 st November 2019)
09:00-09:30	REGISTRATION AND OPENING	Miguel Onorato	Magnus Borgh
09:30-10:00	Jason Laurie		Thibault Congy
10:00-10:30			Gennady El
10:30-11:00	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK
11:00-11:30	Gavin Esler	Emilian Parau	Thomas Gasenzer
11:30-12:00	Andrew Gilbert	Anna Kalogirou	Simon Thalabard
12:00-12:30	Laura Cope	Stéphane Randoux	Pierre Suret
12:30-14:00	LUNCH	LUNCH	CLOSING REMARKS LUNCH
14:00-14:30	Renzo Ricca	Sergey Nazarenko	
14:30-15:00			
15:30-16:00	COFFEE-BREAK	COFFEE-BREAK	
16:00-16:30	Luca Galantucci	Miguel Bustamante	
16:30-17:00	Andrew Baggaley	Christophe Josserand	
17:00-17:30	Amit Chattopadhyay	FREE FOR DISCUSSIONS	
17:30-19:30	POSTER SESSION DRINKS AND NIBBLES	OR DISCOVER NORWICH TOUR	
19:30		SOCIAL DINNER IN NORWICH	

Classical vortex dynamics

NAME	PRESENTATION TITLE
Jason Laurie	An introduction to 2D Turbulence
Gavin Esler	Decaying two-dimensional turbulence undergoes statistical heating
Andrew Gilbert	Fundamentals of vortex dynamics
Laura Cope	Variability of stochastically-driven zonal jets

Nonlinear waves

NAME	PRESENTATION TITLE
Miguel Onorato	Thermalization and conduction in one-dimensional chains: a wave turbulence approach
Gennady El	Breather gas in the focusing NLS equation: nonlinear spectral theory
Emilian Parau	Nonlinear waves under ice
Stéphane Randoux	Nonlinear propagation of one-dimensional waves: some recent experimental results
Anna Kalogirou	Wave amplification phenomena and a novel wave-energy converter

Wave interactions and turbulence

NAME	PRESENTATION TITLE
Sergey Nazarenko	Inverse cascade and non-equilibrium condensation in BEC
Christophe Josserand	Finite-time localized singularities as a mechanism for turbulent dissipation
Miguel Bustamante	Exact discrete resonances in the Fermi-Pasta-Ulam-Tsingou system

Coherent structures and topological excitations

NAME	PRESENTATION TITLE
Renzo Ricca	Quantum vortex dynamics by geometric and topological methods
Andrew Baggaley	Coarse-grained pressure dynamics in superfluid turbulence
Luca Galantucci	Vortex induced dissipation in thin atomic Josephson Junctions

Talks with overlapping themes

NAME	PRESENTATION TITLE
Thomas Gasenzer	Universal dynamics and nonthermal fixed points in Bose systems

Pierre Suret	Statistical and spectral properties of the modulation instability: experiments and modeling by using soliton gas
Simon Thalabard	Spontaneous stochasticity of shear-layer instabilities
Amit Chattopadhyay	MHD Turbulence in Stochastic Accretion Flows
Hayder Salman	Ordering of Vortex Excitations in a 2D Bose Gas Far From Equilibrium
Thibault Congy	Bidirectional soliton gas
Magnus Borgh	Exploring defect topology and non-Abelian vortices in spinor Bose-Einstein condensates