Waves, Coherent Structures, and Turbulence (WCST2019)

University of East Anglia, Norwich, UK

30th October – 1st November 2019

Time	Wednesday (30th October 2019)	Thursday (31th October 2019)	Friday (1st November 2019)
	John Innes Centre Room 1 & 2 Centrum	John Innes Centre Room Watson & Crick	John Innes Centre Room Watson & Crick
09:00-09:30	**REGISTRATION AND OPENING**	Miguel Onorato	
09:30-10:00	Jason Laurie		Thibault Congy
10:00-10:30		Gennady El	Hayder Salman
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
	Sainsbury Centre for Visual Arts	Sainsbury Centre for Visual Arts	Sainsbury Centre for Visual Arts
12:30-14:30	**LUNCH**	**LUNCH**	**CLOSING REMARKS** **LUNCH**
	UEA New Science Building Room 0.06	John Innes Centre Room Watson & Crick	
14:30-15:00	Renzo Ricca	Sergey Nazarenko	
15:00-15:30			
15:30-16:00	**COFFEE-BREAK**	**COFFEE-BREAK**	
16:00-16:30	Andrew Baggaley	Miguel Bustamante	
16:30-17:00	Magnus Borgh	Christophe Josserand	
17:00-17:30	Amit Chattopadhyay	**FREE FOR DISCUSSIONS** **OR** **DISCOVER NORWICH TOUR**	
	UEA Julian Study Centre Foyer		
17:30-19:30	**POSTER SESSION** **DRINKS AND NIBBLES**		
19:30		**SOCIAL DINNER IN NORWICH** **(St Andrews Brew House)**	

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
Magnus Borgh	Exploring defect topology and non-Abelian vortices in spinor Bose-Einstein condensates

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