

Blurring the lines between pure and applied through mixing

Sunday 1 – Friday 6 June 2025

Venue: Sabhal Mor Ostaig, (Gaelic College)
Sleat, Isle of Skye, IV44 8RQ

The programme is subject to change. All times are British Summer Time (BST).

SUNDAY 1 JUNE	
12.00	Coach pick up from Bayes Centre, Edinburgh Please meet at the large parking bay on Crichton Street. The coach will depart at 12pm, so please arrive 10mins earlier to load your bags on and get seated.
12.30	Coach pick up from Edinburgh Airport Please meet at the coach parking. Jayde Sommers will be onsite to make sure everyone is in the coach parking bay before calling in the coach. Please look out for Jayde who'll be holding a Sabhal Mor Ostaig sign.
	There will be a rest stop along the way, where you'll be able to purchase refreshments.
18.30-19.00	Arrive at Sabhal Mor Ostaig and check into accommodation
19.00-19.30	Dinner

MONDAY 2 JUNE	
08.00-09.15	Breakfast
09.30-10.30	Peter Haynes , University of Cambridge <i>Mathematical models of transport and mixing in atmosphere and ocean</i>
10.30-11.00	Refreshments
11.00-11.30	Umberto Pappalettera , Bielefeld University <i>On anomalous dissipation and regularization in Gaussian isotropic turbulence</i>
11.45-12.15	Luigi De Rosa , Gran Sasso Science Institute <i>Dissipation concentration</i>
12.30-13.30	Lunch
14.00-15.00	Yao Yao , National University of Singapore <i>Growth and asymptotics in incompressible fluids</i>
15.00-15.30	Refreshments
15.30-16.00	Matthew Novack , Purdue University <i>Non-trivial stationary solutions for the 2D Navier-Stokes equations</i>
16.00-17.00	David Dritschel , University of St Andrews <i>The onset of filamentation on vorticity interfaces</i>
17.30-18.30	Dinner
20.00 onwards	Jean-Luc Thiffeault , University of Wisconsin Jacques Vanneste , University of Edinburgh

TUESDAY 3 JUNE	
08.00-09.15	Breakfast
09.30-10.30	Klas Modin , Chalmers University of Technology <i>Matrix Hydrodynamics and Mixing</i>
10.30-11.00	Refreshments
11.00-11.30	Theresa Lange , Schola Normale Superiore Pisa <i>Non-uniqueness of Leray-Hopf solutions for the 3D fractional Navier-Stokes equations perturbed by transport noise</i>
11.45-12.15	Michele Dolce , École Polytechnique Fédérale de Lausanne <i>On viscous vortex dipoles and crystals</i>
12.30-13.30	Lunch
14.00-15.00	Andrew Gilbert , University of Exeter <i>Vortex motion, stretching and shedding</i>
15.00-15.30	Refreshments
15.30-16.00	David Villringer , Imperial College London <i>Alpha-unstable flows and the fast dynamo problem</i>
16.00-17.00	Christian Seis , University of Münster <i>Exponential mixing by random cellular flows</i>
17.30-18.30	Dinner
20.00 onwards	Helena Nussenzveig Lopes , Universidade Federal Do Rio de Janeiro Vlad Vicol , New York University

WEDNESDAY 4 JUNE	
08.00-09.00	Breakfast
09.15-10.15	Jeremie Bec , CNRS, Institut de Physique de Nice <i>Lagrangian relative dispersion and intermittency in three-dimensional turbulence</i>
10.15-10.45	Refreshments
10.45-11.45	Samuel Punshon-Smith , Tulane University <i>Lower Bounds on Lyapunov Exponents for SPDE</i>
11.45-12.15	Simon Thalabard , Université Côte D'azur <i>Smoothing by intermittency in multifractal Kraichnan Flows</i>
12.30-13.30	Lunch
13.30 onwards	Free afternoon
17.30-18.30	Dinner

THURSDAY 5 JUNE	
08.00-09.15	Breakfast
09.30-10.30	Gianluca Crippa , University of Basel <i>Weak, renormalized, and vanishing-viscosity solutions of the two-dimensional Euler equations</i>
10.30-11.00	Refreshments
11.00-11.30	Martin Taylor , Imperial College London <i>Phase mixing for the Vlasov equation in cosmology</i>
11.45-12.15	William Cooperman , ETH Zurich <i>Residual diffusion for fluid flows</i>
12.30-13.30	Lunch
14.00-15.00	Alexandra Tzella , University of Birmingham <i>Boundary conditions for active Brownian particles</i>
15.00-15.30	Refreshments
15.30-16.00	Chiara Calascibetta , Centre Inria d'Université Côte d'Azur <i>Hidden symmetry in passive scalar advected by 2D Navier-Stokes turbulence</i>
16.00-17.00	Luca Biferale , University of Rome Tor Vergata <i>Generative AI for Lagrangian Turbulence</i>
19.00 onwards	Workshop Dinner

FRIDAY 6 JUNE	
08.00-08.45	Breakfast
09.00	Coach pick up Sabhal Mor Ostaig Please meet outside front entrance of the main building. The coach will depart at 9am, so please arrive 10mins earlier to load your bags on and get seated. Jayde Sommers will collect your room keys from you as you hop on the coach.
09.30	Coach drop off Kyle of Lochalsh train station
	There will be a rest stop along the way, where you'll be able to purchase refreshments. A packed lunch will be provided before hopping on coach.
15.00	Coach drop off Edinburgh Airport
15.30	Coach drop off Bayes Centre, Edinburgh