Programmes & Workshops 2024



New equivariant methods in algebraic and differential geometry

3 January 2024 to 28 June 2024



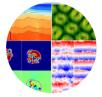
Applied and computational algebraic geometry

22 January 2024 to 26 January 2024

Singularity theory and hyperbolicity
18 March 2024 to 22 March 2024

W K-stability and moment maps 13 May 2024 to 17 May 2024

Moduli stacks and enumerative geometry 17 June 2024 to 21 June 2024



Anti-diffusive dynamics: from sub-cellular to astrophysical scales

8 January 2024 to 28 June 2024

Layering — A structure formation mechanism in oceans, atmospheres, active fluids and plasmas
5 January 2024 to 19 January 2024

Layering in Magnetized Plasmas
19 February 2024 to 23 February 2024
National STEM Learning Centre,
University of York, York

Mathematical and Computational
Modelling of Anti-Diffusive Phenomena
25 March 2024 to 28 March 2024

Climate Applications of Layering
20 May 2024 to 24 May 2024

Anti-Diffusion in Multiphase and Active Flows

10 June 2024 to 14 June 2024



Discretization and recovery in high-dimensional spaces

1 July 2024 to 26 July 2024

W

Multivariate approximation, discretization, and sampling recovery 15 July 2024 to 19 July 2024



Stochastic systems for anomalous diffusion

1 July 2024 to 18 December 2024

Self-interacting processes 8 July 2024 to 12 July 2024

Stochastic reflection
5 August 2024 to 9 August 2024

Geometry, occupation fields, and scaling limits

28 October 2024 to 1 November 2024

W Monte Carlo sampling: beyond the diffusive regime

25 November 2024 to 29 November 2024



Modelling and inference for pandemic preparedness

5 August 2024 to 30 August 2024

Modelling and inference for pandemic preparedness - a focussed workshop 5 August 2024 to 9 August 2024



Twistor theory

2 September 2024 to 27 September 2024



Twistors in Geometry & Physics
9 September 2024 to 13 September 2024



Big Specification

30 September 2024 to 25 October 2024



Quantum information, quantum groups and operator algebras

4 November 2024 to 6 December 2024



School on selected topics in quantum groups, quantum information and operator algebras

4 November 2024 to 8 November 2024



New trends at the intersection of quantum information theory, quantum groups and operator algebras 2 December 2024 to 6 December 2024



FOLLOW-ON WORKSHOPS



Structure and Randomness a celebration of the mathematics of Timothy Gowers

8 April 2024 to 12 April 2024



Fickle Heart: The intersection of UQ, Al and Digital Twins

3 June 2024 to 4 June 2024



WHT Follow on: the applications, generalisation and implementation of the Wiener-Hopf Method

1 July 2024 to 5 July 2024

SATELLITE PROGRAMMES



Heavy tails in machine learning

2 April 2024 to 26 April 2024 **The Alan Turing Institute, London**

SGD, stability and simulation in the presence of heavy tails
2 April 2024 to 5 April 2024

SGD: stability, momentum acceleration and heavy tails
22 April 2024 to 26 April 2024



Diffusions in machine learning: Foundations, generative models and non-convex optimisation

24 June 2024 to 19 July 2024 **The Alan Turing Institute, London**

International Workshop on Diffusions in Machine Learning: Foundations, Generative Models, and Optimisation 15- 19th July 2024



Emergent phenomena in nonlinear dispersive waves

22 July 2024 to 16 August 2024 **Northumbria University, Newcastle**



Hypergraphs: Theory and Applications

22 July 2024 to 16 August 2024 **The Alan Turing Institute, London**



Topology, representation theory and higher structures

27 May 2024 to 23 June 2024

Gaelic College, Sabhal Mor Ostain,
Isle of Skye

Workshop on topology, representation theory and higher structures
10 June 2024 to 14 June 2024

International Conference
17 June 2024 to 21 June 2024



The mathematics of multiphase flows with applications

1 July 2024 to 31 July 2024 University of East Anglia (UEA) in Norwich

ECR Summer School
2 July 2024 to 5 July 2024

New directions in multiphase flows
8 July 2024 to 12 July 2024

