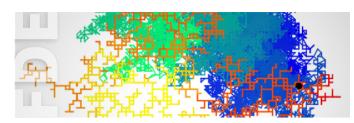
Programmes & Workshops 2022



Fractional differential equations

4 January 2022 - 29 April 2022



Fractional kinetics, hydrodynamic limits and fractals

21 - 25 March 2022

Optimal control and fractional dynamics

19 - 22 April 2022



Frontiers in kinetic theory: connecting microscopic to macroscopic scales - KineCon 2022

4 January 2022 - 24 June 2022

Frontiers in analysis of kinetic equations

10 - 14 January 2022

W Kinetic Theory: old and new tutorial

17 - 18 January 2022

Frontiers in kinetic equations for plasmas and collective behavior

25 - 29 April 2022

Frontiers in the interplay between probability and kinetic theory 23 - 25 May 2022

Frontiers in numerical analysis of kinetic equations
20 - 24 June 2022

 $\partial_t \mathbf{u} + \mathbf{u} \cdot \nabla \mathbf{u} + \nabla p = \frac{1}{Re} \nabla^2 \mathbf{u} + f \qquad \nabla \cdot \mathbf{u} = 0$

Mathematical aspects of turbulence: where do we stand?

4 January 2022 - 24 June 2022

Turbulence: where do we stand and where are we heading?

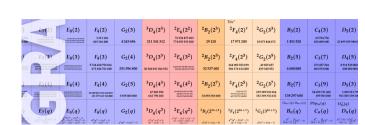
Rigorous analysis of incompressible fluid models and turbulence
14 - 18 February 2022

Modelling and analysis of turbulent transport, mixing and scaling

7 - 11 March 2022

Wall-bounded turbulence: beyond current boundaries 28 March to 1 April 2022

Advances in geophysical and astrophysical turbulence
16 - 20 May 2022



Groups, representations and applications: new perspectives

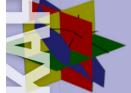
3 May 2022 - 29 July 2022

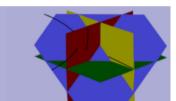
Counting conjectures and beyond

9 - 13 May 2022

Simple groups, representations and applications

25 - 29 July 2022





K-theory, algebraic cycles and motivic homotopy theory

3 May 2022 - 29 July 2022

Algebraic K-theory, motivic cohomology and motivic homotopy theory

13 - 17 June 2022

Arithmetic geometry, cycles, Hodge theory, regulators, periods and heights 20 - 24 June 2022

Mathematical physics: algebraic cycles, strings and amplitudes

. 19 - 22 July 2022



D:

**

Verified software

4 July 2022 - 12 August 2022



Tools and experiments for verified software

8 - 12 August 2022



Dispersive hydrodynamics: mathematics, simulation and experiments, with applications in nonlinear waves

4 July 2022 - 16 December 2022



Women in dispersive equations day

18 - 18 July 2022

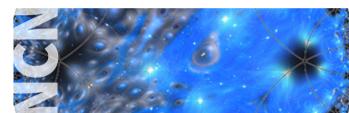
Analysis of dispersive systems 5 - 9 September 2022

Integrable systems and applications

12 - 16 September 2022

Statistical mechanics, integrability and dispersive hydrodynamics
17 - 21 October 2022

Physical applications
5 - 9 December 2022



New connections in number theory and physics

1 August 2022 - 23 September 2022

Making the bridge: Exploring new connections between number theory and physics
1-5 August 2022



Applicable resurgent asymptotics: towards a universal theory

5 September 2022 - 16 December 2022



Mathematics of beyond allorders phenomena
31 October - 4 November 2022

Study group

12 - 16 December 2022



Frontiers in dynamo theory: from the Earth to the stars

12 September 2022 - 16 December 2022

Ġ.



Fluid flow and magnetic field generation in fluids and plasmas - theory and laboratory experiments 17 - 21 October 2022

Modeling, observing and understanding flows and magnetic fields in the Earth's core and in the Sun
12 - 16 December 2022



SIP Follow on:

Mathematics of sea ice
in the twenty-first
century

19 - 30 September 2022

19 50 beptember 2022

Microbial communities: current approaches and open challenges 3 - 7 October 2022



INI supports the JUNIPER Consortium

1 January 2022 - 31 December 2022





