Programmes & Workshops 2022

**Fractional differential equations**
- 4 January 2022 - 29 April 2022
- Deterministic and stochastic fractional differential equations and jump processes
- 21 - 25 February 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
- From theory to practice
- 4-8 July 2022
- Tools and experiments for verified software
- 8 - 12 August 2022

**Verified software**
- 4 July 2022 - 12 August 2022
- From theory to practice
- 4-8 July 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
- Modulation theory and dispersive shock waves
- 11 - 15 July 2022
- Women in dispersive equations
- 18 - 22 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

**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

**Mathematical aspects of turbulence: where do we stand?**
- 4 January 2022 - 24 June 2022
- Turbulence: where do we stand and where are we heading?
- 4 - 7 January 2022
- 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

**Frontiers in dynamo theory: from the Earth to the stars**
- 12 September 2022 - 16 December 2022
- Dynamos in planets in stars - similarities and differences
- 12 - 16 September 2022
- 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

**International conference on computability, complexity and randomness**
- 6 - 10 June 2022

**SIP Follow on: Mathematics of sea ice in the twenty-first century**
- 19 - 30 September 2022

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

INI supports the JUNIPER Consortium
- 1 January 2022 - 31 December 2022

**Applicable resurgent asymptotics: towards a universal theory**
- 5 September 2022 - 16 December 2022
- Physical resurgence: On quantum, gauge, and stringy
- 12 - 16 September 2022
- Mathematics of beyond all-orders phenomena
- 11 October - 4 November 2022
- Study group
- 12 - 16 December 2022

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