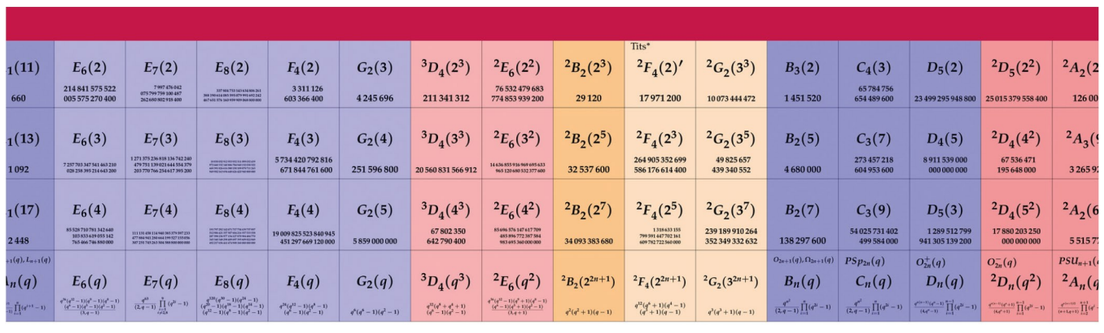
Isaac Newton Institute for Mathematical Sciences

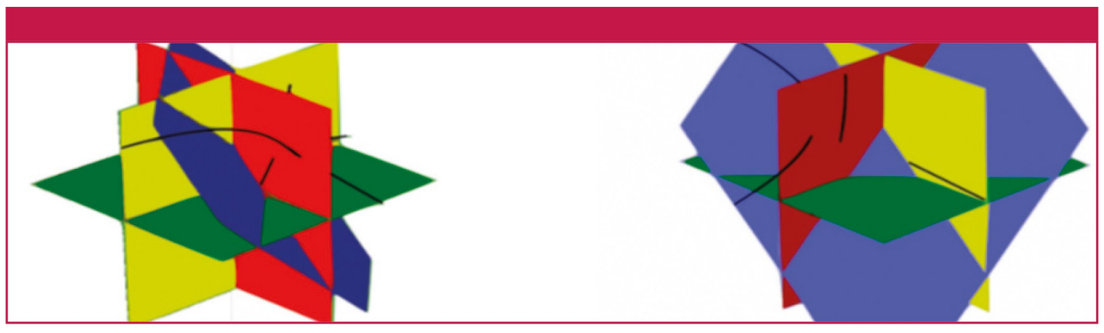
# Programmes & Workshops 2020



## Groups, representations and applications: new perspectives

6th January 2020 to 30th June 2020

- W Introductory/instructional workshop
  6th January 2020 to 10th January 2020
- W Computational and algorithmic methods
  27th January 2020 to 31st January 2020
- W Interactions between group theory, number theory, combinatorics and geometry
  16th March 2020 to 20th March 2020
- W Counting conjectures and beyond
  18th May 2020 to 22nd May 2020
- W Simple groups, representations and applications
  22nd June 2020 to 26th June 2020



## K-Theory, algebraic cycles and motivic homotopy theory

6th January 2020 to 30th June 2020

- W Introductory workshop
  13th January 2020 to 17th January 2020
- W Algebraic K-theory, motivic cohomology and motivic homotopy theory
  23rd March 2020 to 27th March 2020
- W Arithmetic geometry, cycles, Hodge theory, regulators, periods and heights
  30th March 2020 to 3rd April 2020
- SW Landau-Ginzburg mirrors and amplitudes
  26th May 2020 to 30th May 2020
- W Mathematical physics: algebraic cycles, strings and amplitudes
  1st June 2020 to 5th June 2020

SEMANTICS AND SYNTAX: A LEGACY OF ALAN TURING
FOLLOW ON WORKSHOP

## International conference on computability, complexity and randomness

29th June 2020 to 3rd July 2020

MATHEMATICS OF SEA ICE PHENOMENA
FOLLOW ON WORKSHOP

## Mathematics of sea ice in the twenty-first century

20th July 2020 to 31st July 2020

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

6th July 2020 to 18th December 2020

- W Modulation theory and dispersive shock waves
  13th July 2020 to 17th July 2020
- W Analysis of dispersive systems
  7th September 2020 to 11th September 2020
- SW Integrable systems and applications
  14th September 2020 to 18th September 2020
- W Statistical mechanics, integrability and dispersive hydrodynamics
  19th October 2020 to 23rd October 2020
- W Physical applications
  7th December 2020 to 11th December 2020

## Verified software

27th July 2020 to 4th September 2020

- W Theory and applications of verified software
  3rd August 2020 to 7th August 2020
- W Tools and experiments for verified software
  17th August 2020 to 21st August 2020

## Frontiers in dynamo theory: from the Earth to the stars

7th September 2020 to 18th December 2020

- W Dynamos in planets in stars - similarities and differences
  14th September 2020 to 18th September 2020
- SW Fluid flow and magnetic field generation in fluids and plasmas - theory and laboratory experiments
  19th October 2020 to 23rd October 2020
- W Modeling, observing and understanding flow and magnetic field in the Earth's core and in the Sun
  30th November 2020 to 4th December 2020

W WORKSHOP SW SATELLITE WORKSHOP