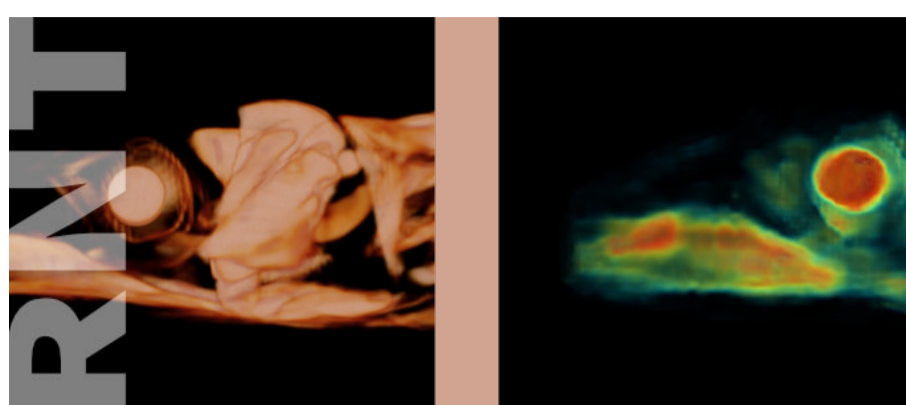


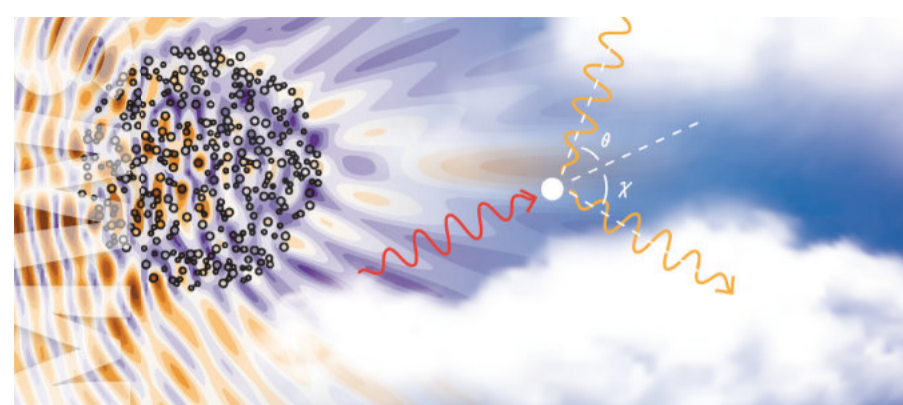
Programmes & Workshops 2023



Rich and Nonlinear Tomography – a multidisciplinary approach

4 January 2023 – 30 June 2023

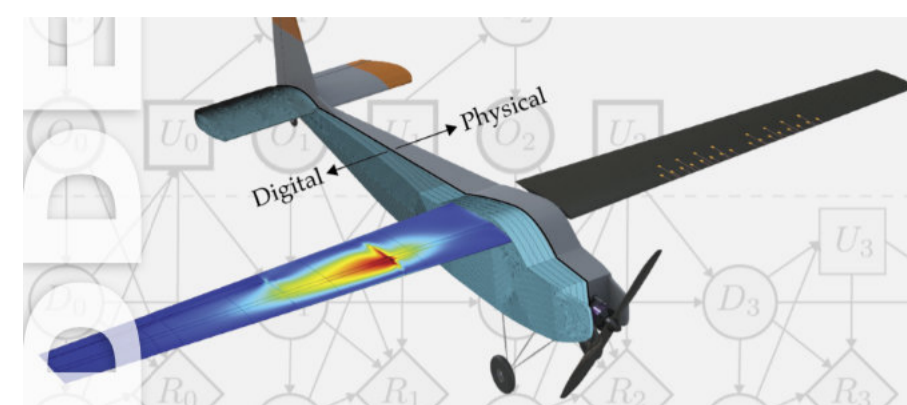
- W** Rich and Nonlinear Tomography (RNT) in Radar, Astronomy and Geophysics
30 January 2023 to 3 February 2023
- W** Rich and non-linear tomography in medical imaging, materials and non destructive testing
27 – 31 March 2023
- W** New tomographic methods using particles
15 – 19 May 2023
- W** Synergistic workshop on Rich and Nonlinear tomography aimed at drawing together all strands of both methods and applications with new insights
19 – 23 June 2023



Mathematical theory and applications of multiple wave scattering

4 January 2023 – 30 June 2023

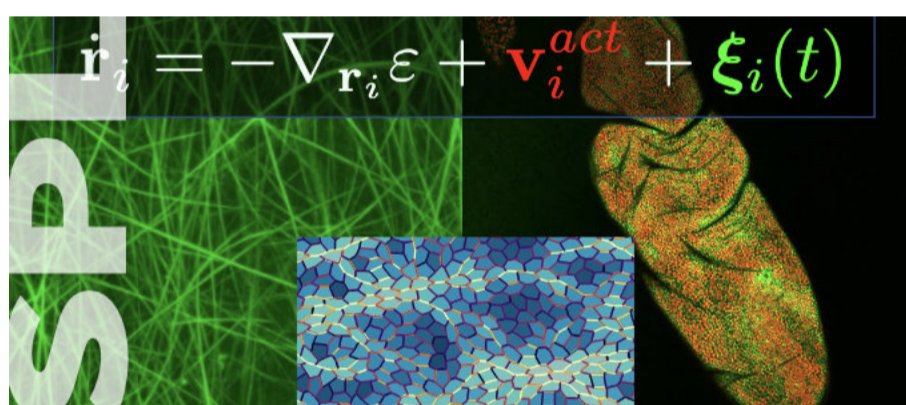
- W** Winter School
9 – 13 January 2023
- W** Canonical scattering problems
6 – 10 February 2023
- W** Theory of wave scattering in complex and random media
20 – 24 March 2023
- W** Computational methods for multiple scattering
17 – 21 April 2023
- W** Multiple scattering in engineering and applied sciences
22 – 26 May 2023



The mathematical and statistical foundation of future data-driven engineering

4 January 2023 – 30 June 2023

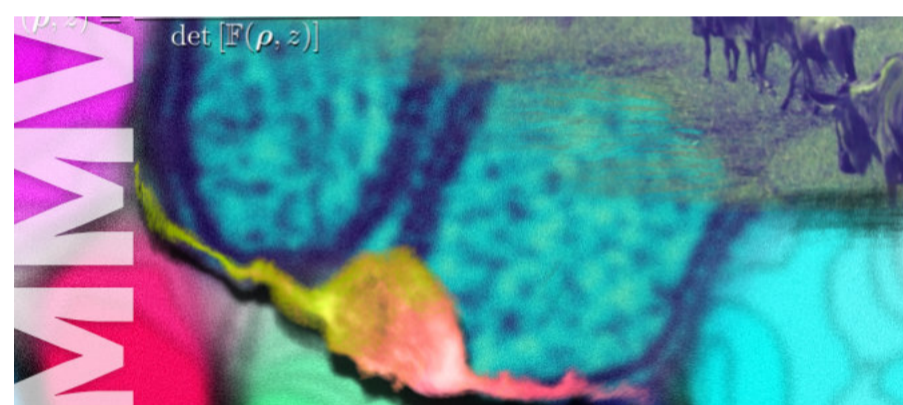
- W** Tutorial Workshop
16 – 20 January 2023
- W** Modelling, Analysis and Inference for Digital Twins
28 – 30 March 2023
- W** Computational Challenges and Emerging Tools
24 – 28 April 2023
- W** Mathematical Foundations
8 – 12 May 2023



New statistical physics in living matter: non equilibrium states under adaptive control

3 July 2023 – 20 December 2023

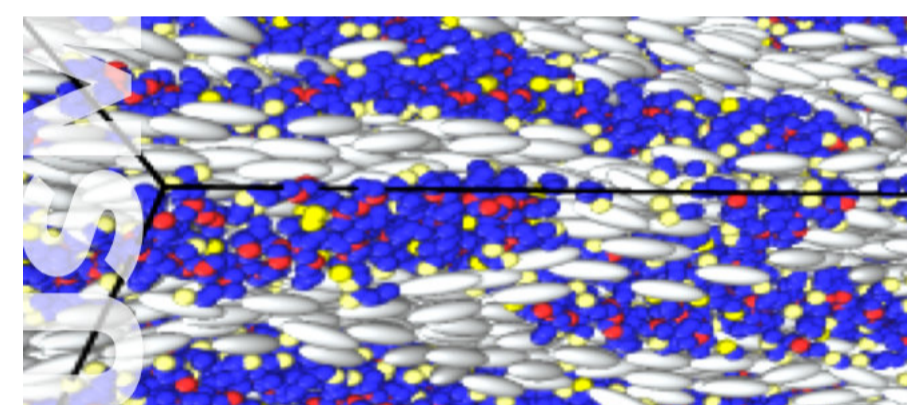
- W** Building a bridge between non-equilibrium statistical physics and biology
3 – 7 July 2023
- W** Active mechanics, cell walls, growth, damage, feedback and morphological control
4 – 8 September 2023
- W** Biological condensates: cellular mechanisms governed by phase transitions
9 – 13 October 2023
- W** Virial self-assembly and replication
13 – 17 November 2023



Mathematics of movement: an interdisciplinary approach to mutual challenges in animal ecology and cell biology

5 July 2023 – 20 December 2023

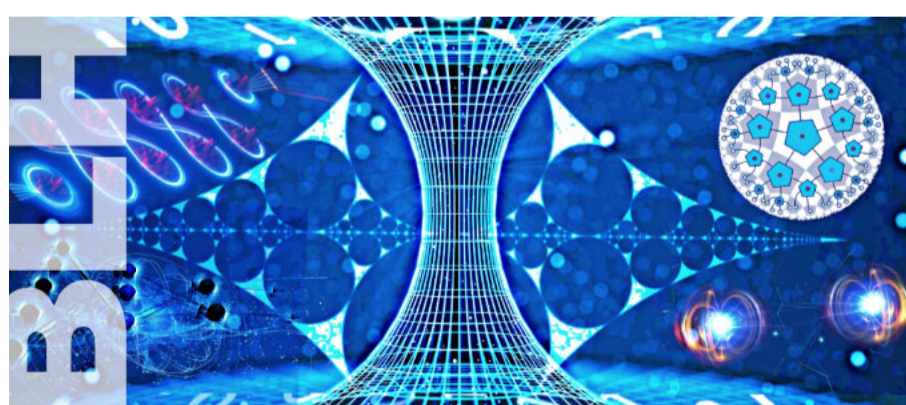
- W** Summer School on Mathematics of Movement
17 – 21 July 2023
- W** Collective Behaviour
7 – 11 August 2023
- W** Measures and Representations of Interactions
11 – 15 September 2023
- W** Modelling non-Markov Movement Processes
6 – 10 November 2023



Uncertainty quantification and stochastic modelling of materials

10 July 2023 – 1 September 2023

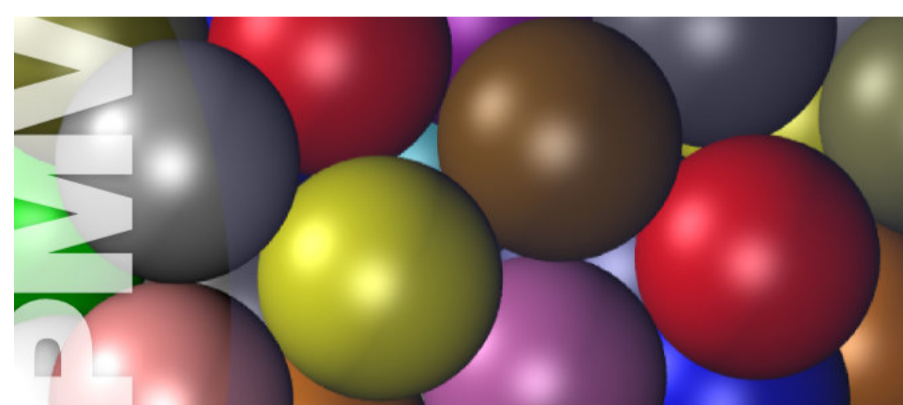
- W** USM Workshop 1
10 – 14 July 2023
- W** USM Workshop 2
31 July – 4 August 2023



Black holes: bridges between number theory and holographic quantum information

4 September to 20 December 2023

- W** Number theory, machine learning and quantum black holes
2 – 6 October 2023
- W** Machine learning toolkits and integrability techniques in gravity
6 – 10 November 2023
- W** Bridges between holographic quantum information and quantum theory
27 November 2023 – 1 December 2023

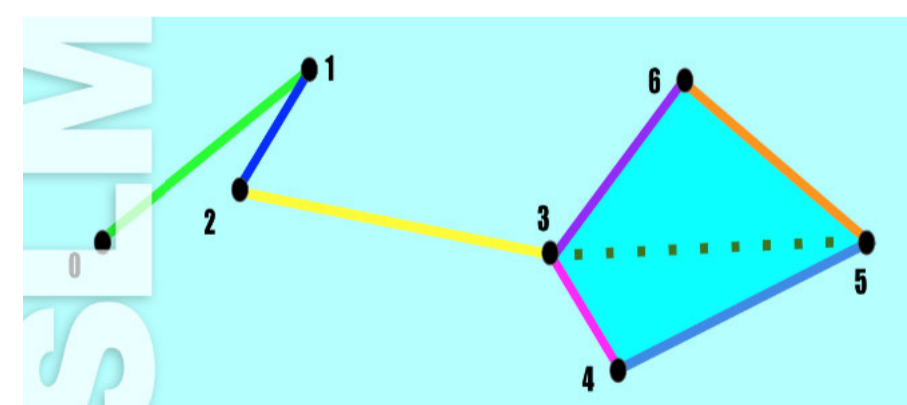


GeomPack geometry and packing in material structure and biology

14 August 2023 to 10 September 2023

FW Complex analysis: techniques, applications and computations
24 – 28 July 2023

FW Operator algebras: subfactors and their applications
26 – 30 June 2023



Solidarity for mathematicians: giving refuge to researchers in the mathematical sciences

10 March 2022 –

FW A panorama of homotopy theory
5 – 9 June 2023

FW Homotopy: fruit of the fertile furrow
12 – 16 June 2023