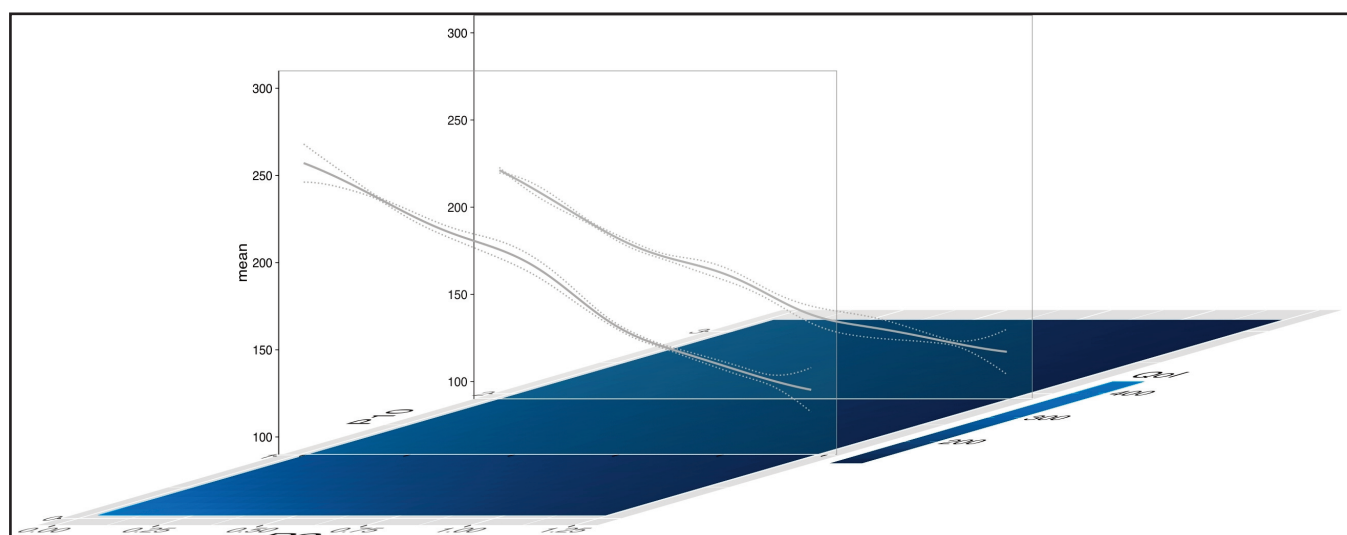


# Programmes & Workshops 2018



## **P** Uncertainty quantification for complex systems: theory and methodologies

Wed 3rd Jan 2018 - Fri 29th Jun 2018

- W** Key UQ methodologies and motivating applications  
Mon 8th Jan 2018 - Fri 12th Jan 2018
- W** Surrogate models for UQ in complex systems  
Mon 5th Feb 2018 - Fri 9th Feb 2018
- W** Reduced dimension algorithms for UQ in complex systems  
Mon 5th Mar 2018 - Fri 9th Mar 2018
- W** UQ for inverse problems in complex systems  
Mon 9th Apr 2018 - Fri 13th Apr 2018



## **P** Statistical scalability

Wed 10th Jan 2018 - Fri 29th Jun 2018

- W** Theoretical and algorithmic underpinnings of Big Data  
Mon 15th Jan 2018 - Fri 19th Jan 2018
- W** Statistics of geometric features and new data types  
Mon 19th Mar 2018 - Fri 23rd Mar 2018
- W** Big Data, big difficulties: heterogeneity, model misspecification, changepoints  
Mon 16th Apr 2018 - Fri 20th Apr 2018 SATELLITE
- W** Future challenges in statistical scalability  
Mon 25th Jun 2018 - Fri 29th Jun 2018

Follow up workshop:

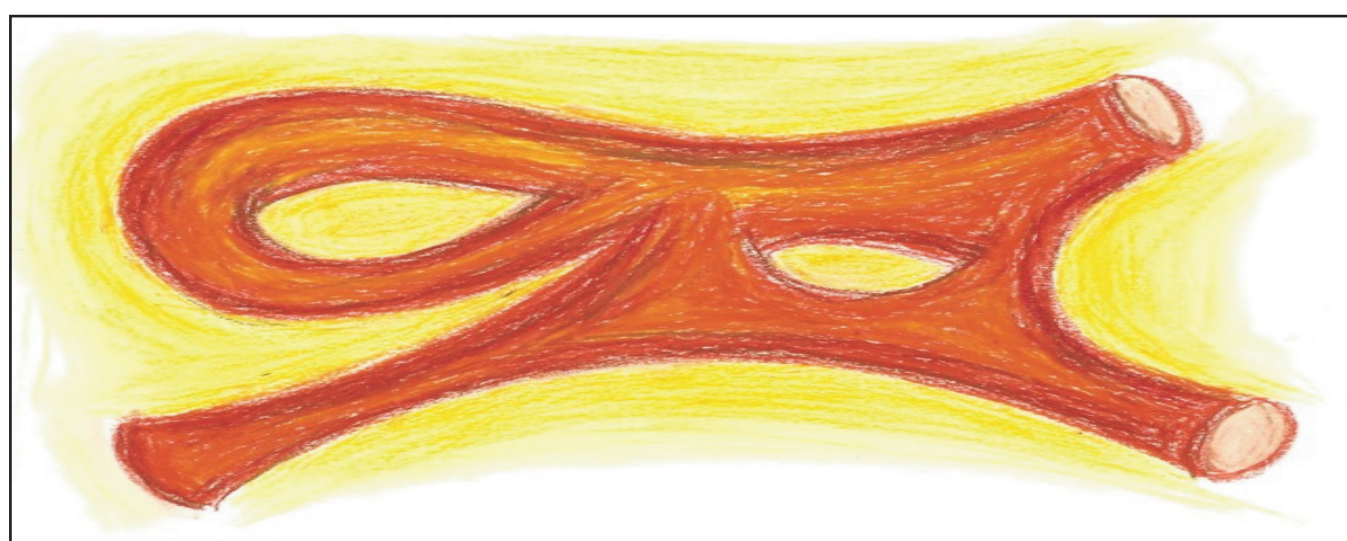
## **W** Random geometry

9th July 2018 to 20th July 2018

Follow up workshop:

## **W** Beyond i.i.d. in information theory - Mathematical challenges of quantum information

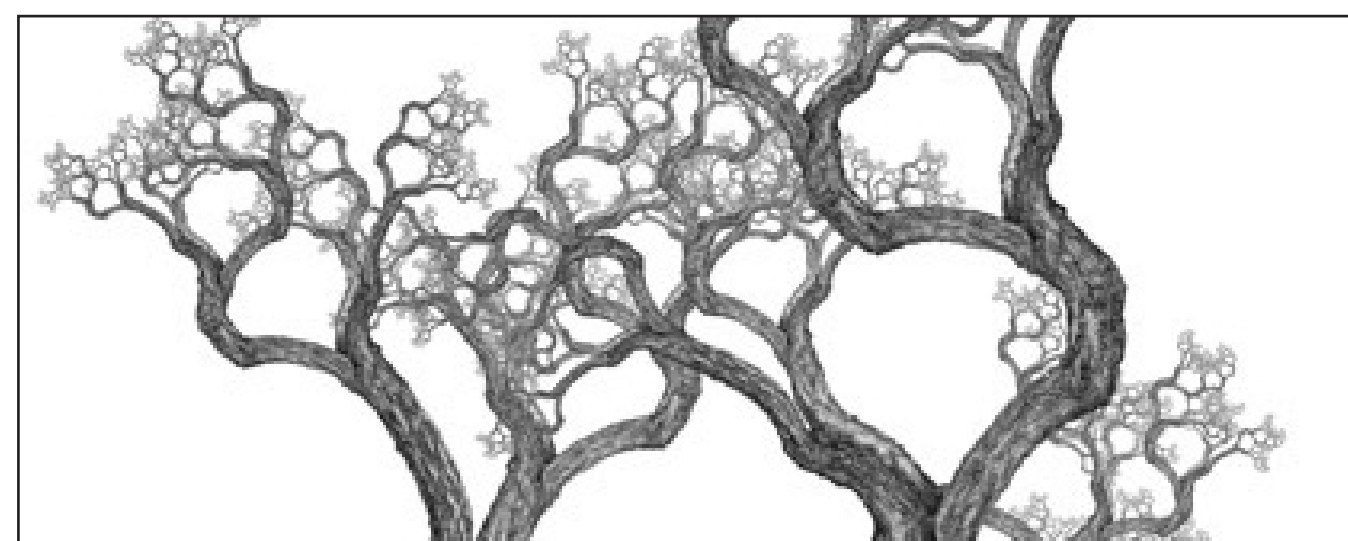
23rd July 2018 to 27th July 2018



## **P** Homotopy harnessing higher structures

Mon 2nd Jul 2018 - Fri 21st Dec 2018

- W** Higher structures in homotopy theory  
Mon 2nd Jul 2018 - Fri 6th Jul 2018
- W** Equivariant and motivic homotopy theory  
Mon 13th Aug 2018 - Fri 17th Aug 2018
- W** Derived algebraic geometry and chromatic homotopy theory  
Mon 24th Sep 2018 - Fri 28th Sep 2018
- W** Manifolds  
Mon 3rd Dec 2018 - Fri 7th Dec 2018



## **P** Scaling limits, rough paths, quantum field theory

Mon 3rd Sep 2018 - Fri 21st Dec 2018

- W** Renormalisation in quantum field theory and in stochastic partial differential equations: a gentle introduction and some recent developments  
Mon 3rd Sep 2018 - Fri 7th Sep 2018
- W** Quantum Field Theory, Renormalisation and Stochastic Partial Differential Equations  
Mon 22nd Oct 2018 - Fri 26th Oct 2018
- W** Conclusions and Future Directions  
Mon 10th Dec 2018 - Fri 14th Dec 2018