



MAXWELL INSTITUTE FOR MATHEMATICAL SCIENCES

Student Conference 11 and 12 January 2024

Venue: [Newbattle Abbey](#)

Location: ([opens in Google Maps](#)), with [some travel options](#) (starting from Bayes, for 10 am arrival on 11/01/24)

11 JANUARY

10:00 Arrive and welcome

10:30 David Cueto Noval: A Cluster Approach To Quantum Multiplicative Quiver Varieties

10:50 Zhaoxi Zhang: Bayesian nonparametric inference for the ROC curve

11:10 Rebecca Wilks: Counting elephants from space - integrating satellite data with statistical ecology

11:30 Break (pastries)

11:50 Johnny Lee: Bayesian Regularisation with Smoothing for Tail Index Regression

12:10 Yannis Galanos: Multilinear Geometric Inequalities in Harmonic Analysis

12:30 Lunch

13:30 Group activity: Presentation on Networking (AU)

14:00 Lambert De Monte: Multivariate extremes - Bayesian inference for radially-stable distributions

14:20 Wenxing Zhou: Random Projection Based Dimension Reduction

14:40 James Coe: Quasi-invariance for the cubic Szego equation

15:00 Coffee and pastries

15:30 Group activity: boardgames or group walk (MD)

17:00: Finish

12 JANUARY

10:00 Coffee, biscuits and networking

10:50 Nikos Makras: Taming the Interactive Particles Algorithm

11:10 Aidana Alpyspayeva: Computation of optimal parameters in steepest descent method (gradient method) for framework of transfer

11:30 Break: pastries

11:50 Hangrui Liu: Energy capacity procurement under uncertainty

12:10 Yubo Rasmussen: Embedding Neural Networks of the Pareto Regression with Applications in Insurance Pricing

12:30 Lunch

13:30 Özge Tekin: Load Balancing with Random Service Rates

13:50 Oli Jones: Fixed Points of Automorphisms of GBS Groups

14:10 Joseph Malbon: Explicit K-stability of Fano Threefolds

14:30 Group activity: overcoming challenges throughout and after a PhD (MO)

15:00 Pastries

15:20 Final discussions

16:00 Closing remarks (MO)