**COURSES OFFERED IN 2024-25**

CS = Computer Science

B or C = undergraduate courses

Bespoke Maths = pure MFoCS courses

**Schedule I**

Algebraic Topology - C Prof Andre Henqriques MT

Algebraic Number Theory – B Prof Victor Flynn HT

Analytic Number Theory - C Prof Ben Green MT

Analytic Topology - C Prof Rolf Suabedissen HT

Categories, Proofs, and Processes – (CS) Prof Bartek Klin HT

Category Theory - C Dr Lukas Brantner MT

Computational Complexity (CS) Prof Rahul Santhanum HT

Computer-Aided Formal Verification (CS) Prof David Parker MT

Godel’s Incompleteness Theorem - C Prof Robin Knight HT

Graph Theory - B Prof. Paul Balister MT

Information Theory - B Prof Sam Cohen MT

Integer Programming - B Dr Jari Fowkes MT

Introduction to Quantum Information - C Prof Artur Ekert HT

Lambda Calculus and Types (CS) Dr Amir Goharshady HT

Model Theory - C Prof Jochen Koenigsmann MT

Quantum Processes and Computation (CS) Prof Aleks Kissinger MT

Topology and Groups - B Prof Andras Juhasz MT

**Schedule II**

Additive Combinatorics - C Prof Ben Green HT

\*Applied Category Theory (bespoke Maths) Dr Carmen Constantin TT

Algebraic Geometry - C Prof Damien Rossler MT

Automata, Logic and Games (CS) Prof Michael Benedikt HT

Axiomatic Set Theory - C Dr Robin Knight MT

Bayesian Statistical Probabilistic Programming (CS) Dr Gunes Baydin MT

Combinatorics - C Prof Alex Scott MT

Computational Algebraic Topology - C Prof Vidit Nanda HT

\*Classical and Quantum Compositional Prof Bob Coecke HT

Distributional Meaning (bespoke maths))

Distributed processes, types, and Prof Nobuko Yoshida MT

programming (CS)

Elliptic Curves - C Dr James Newton MT

Foundations of Self-Programming Agents (CS)  Prof Giuseppe de Giacomo HT

Geometric Deep Learning (CS) Prof Michael Bronstein HT

Geometric Group Theory - C Prof Cornelia Drutu HT

Graph Representation Learning (CS) Dr Ismail Ceylan MT

Homological Algebra - C Dr Kobi Kremnitzer MT

Infinite Groups - C Prof Cornelia Drutu MT

\*Introduction to Schemes - C Prof Kevin McGerty HT

Low-dimensional Topology and Knot Theory - C Prof Andras Juhasz HT

Networks - C Prof Peter Grindrod HT

Probabilistic Combinatorics - C Prof Oliver Riordan HT

Topological Groups (bespoke Maths) Prof Tom Sanders TT

\*These courses are offered as directed reading courses, with syllabuses provided as in the case of lecture courses. There may be one or two more reading courses to be added later.

WE REGRET THAT DUE TO TIMETABLING RESTRICTIONS THERE WILL BE A NUMBER OF CLASHES BETWEEN LECTURE COURSES. PLEASE CHECK THE LECTURE TIMETABLE CARE­FULLY.