MATHEMATICAL SCIENCES
DIVISION OF MATHEMATICAL AND PHYSICAL LIFE SCIENCES
Lecture List for Trinity Term 2025

There may be late changes and amendments to this Lecture List. For an up-to-date version, please check the Mathematical Institute Website: https://www.maths.ox.ac.uk/members/students/lecture-lists
This version updated **08 May 2025**
Events shown on this list are generally one hour long unless stated otherwise.

Subject	Lecturer	Time*	Place
GRADUATE SEMINARS			
Algebra Seminar	Prof. Dan Ciubotaru	Tu. 2	L6, Mathematical Institute
Algebraic Geometry Seminar	Prof. Frances Kirwan	Tu. 3:30–5	L4, Mathematical Institute
Applied Topology Seminar	Dr. Gill Grindstaff	F.3	L4, Mathematical Institute
Combinatorics Seminar	Prof. Alex Scott	T. 2-3:30	L4, Mathematical Institute
Computational Mathematics and Applications	Prof. Patrick Farrell, Prof. Yuji Nakatsukasa, Prof. Nick Trefethen	Th. 2	L3, Mathematical Institute
Fridays@4		F. 4	L1, Mathematical Institute
Functional Analysis	Prof. Stuart White	Tu. 4	C3, Mathematical Institute
Geometric Group Theory	Prof. Dawid Kielak	Tu. 3	L6, Mathematical Institute
Geometry and Analysis	Prof Frances Kirwan and Prof. Guillem Cazassus	M. 3	L4, Mathematical Institute
Industrial and Applied Mathematics	Prof. Dominic Vella	Th. 12	L3, Mathematical Institute
Junior Algebra & Representation Theory Seminar	Jonas Antor	F. 12	N3.12, Mathematical Institute
Junior Geometry Seminar	John Hughes, Jakub Wiaterek	Tu. 2-3:30 (Week 2) Tu. 3-4:30 (Weeks 4, 6, 8)	C6, Mathematical Institute
Junior Topology and Group Seminar	Adele Jackson	W. 4	L6, Mathematical Institute
Logic	Prof. Jonathan Pila, Prof Ehud. Hrushovski, Prof. Jochen Koenigsmann	Th. 5	L3, Mathematical Institute
Mathematical and Computational Finance Seminar	Prof. Rama Cont and Dr Anran Hu	Th. 4	L5, Mathematical Institute
Networks Seminar	Erik Hormann	Tu. 2	C3 Mathematical Institute
Nonlinear PDE	Prof. Gui-Qiang Chen	Th. 3:15–5:30	C5, Mathematical Institute
Number Theory	Aleksander Horawa and Lasse Grimmelt	Th. 4	L4, Mathematical Institute
Numerical Analysis Internal Seminar	Prof. Patrick Farrell, Prof. Yuji Nakatsukasa, Prof. Nick Trefethen	Th. 12	L5, Mathematical Institute
Oxford Data Science Seminar	Prof. Melanie Weber	M. 2	L6, Mathematical Institute
Partial Differential Equations Seminar	Prof. Andrea Modino and Prof. Qian Wang	M. 4.30	L3, Mathematical Institute

OxPDE lunchtime seminar	Dr Ben Fehrman and Eliana Fausti	Th. 12	L6, Mathematical Institute
Probability	Prof. Christina Goldschmidt, Prof. Julien Berestycki	M. 2	L4, Mathematical Institute
Quantum Field Theory/Relativity/Amplitudes	Prof. Lionel Mason and Prof. Chris Beem	F. 12–1:30	L5, Mathematical Institute
Random Matrix Theory Seminar	Prof Jon Keating	Tu. 4	L6, Mathematical Institute
Stochastic Analysis Internal Seminar	Prof. Massimiliano Gubinelli	W. 10-12	L6, Mathematical Institute
Stochastic Analysis and Mathematical Finance Seminar	Prof. Rama Cont and Prof. Massimiliano Gubinelli	M. 3:30	L3, Mathematical Institute
String Theory	Prof. Sakura Shafer-Nameki	T. 1	L1, Mathematical Institute
Topology Seminar	Prof. André Henriques and Prof. Panos Papazoglou	M. 4	L3, Mathematical Institute
Wolfson Centre for Mathematical Biology Journal Club	Prof. Philip Maini	M. 12 F. 11	L4, Mathematical Institute

GRADUATE WORKSHOPS			
WORKSHOPS			
ADVANCED CLASSES			
Logic	Prof Ehud Hrushovski	Th. 11	C5, Mathematical Institute
Topology	Prof André Henriques and Dr. Lukas Brantner	M. 11–12:30	C2, Mathematical Institute
GRADUATE LECTURES			
Finding Structure in Expander Graphs	Dr Nemanja Draganic	F. 11–1 (Weeks 2–8)	C2, Mathematical Institute
TAUGHT COURSE CENTRE			

The Taught Course Centre is a collaboration between the Mathematics Departments at the Universities of Bath, Bristol, Imperial, Oxford and Warwick. It aims to offer approximately 25 graduate level courses over the academic year. Access grid technology will be used so that audiences in all five universities can participate in the lectures. Graduate students should register in advance in order to attend the lectures. For more information about the Taught Course Centre, and for their lecture timetable, please see the website at https://www.maths.ox.ac.uk/groups/tcc

M.Sc. in MATHEMATICAL AND COMPUTATIONAL FINANCE			
M.Sc in MATHEMATICAL AND THEORETICAL PHYSICS			
Collisional Plasma Physics	Prof Sarah Newton	M. 9–11	Department of Physics, Fisher Room
Collisionless Plasma Physics	Prof Alex Schekochihin	M. 5 (Weeks 1–3) W. 5 (Weeks 1–4) F. 5 (Weeks 1, 2, 4)	Department of Physics, Lindemann
Conformal Field Theory	Dr Romain Ruzziconi	Tu. 3–5 (Weeks 2–3) [L5] W. 3–5 (Weeks 2–4) [L5] Th. 3–5 (Weeks 2–4) [L3]	Mathematical Institute, L3/L5
Galactic and Planetary Dynamics	Prof John Magorrian	W. 4 (Weeks 1–6) Th. 2–4 (Weeks 1–6)	Department of Physics, Fisher Room
Quantum Field Theory in Curved Space	Dr Pieter Bomans	M. 9–11 (Weeks 1–4) [L5] F. 3–5 (Weeks 1–4) [L4]	Mathematical Institute, L4/L5

Quantum Matter II	Prof Fabian Essler	M. 11–1 (Weeks 1–5) Tu. 2–4 (Weeks 1–5)	Department of Physics, Fisher Room
String Theory II	Prof Xenia de la Ossa	Tu. 9–11 (Weeks 1–4) W. 9–11 (Weeks 1–4)	Mathematical Institute, L3
Renormalisation Group	Prof Fernando Alday	Th. 9–11 (Weeks 1–4) F. 9–11 (Weeks 1–4)	Mathematical Institute, L4
The Standard Model and Beyond	Prof Fabrizio Caola and Prof John March-Russell	Tu. 11–1 (Weeks 5–8) Th. 11–1 (Weeks 5–8) Rest TBC	Department of Physics, Fisher Room

M.Sc in MATHEMATICAL SCIENCES

The lectures below for MATHEMATICS Part C/OMMS all apply.

M.Sc in MATHEMATICS AND THE FOUNDATIONS OF COMPUTER SCIENCE

Section A: Mathematical Foundations

Schedule I

No lectures.

Schedule II

Topological Groups	Prof. Tom Sanders	M. 10 (Weeks 1–8) [C3] Tu. 10 (Weeks 1–7) [C4] Tu. 10 (Week 8) [L6]	Mathematical Institute, C3/C4/L6

Section B: Applicable Theories

Schedule I

No lectures.

Schedule II

Applied Category Theory	Dr Paolo Perrone	F. 10	Mathematical Institute, L5

MATHEMATICS

Prelims

I: Groups and Group Actions	Prof Nikolay Nikolov	Tu. 9 (Weeks 1–4) F. 9 (Weeks 1–4)	Mathematical Institute, L1
II: Analysis III: Integration	Prof Melanie Rupflin	M. 9 (Weeks 1–4) W. 9 (Weeks 1–4)	Mathematical Institute, L1
III: Statistics and Data Analysis	Prof Christl Donnelly	M. 10 (Weeks 1–4) Tu. 10 (Weeks 1–4) Tu. 11 (Week 4 only) W. 10 (Weeks 1–4) F. 10 (Weeks 1–3)	Mathematical Institute, L1
Fridays@2	Various	F. 2 (weeks TBD)	Mathematical Institute, L1

Part A

Number Theory	Prof Kobi Kremnitzer	M. 10 (Weeks 1–2) W. 9 (Weeks 1–3) Th. 9 (Weeks 1–3)	Mathematical Institute, L2
Group Theory	Prof Emmanuel Breuillard	T. 11 (Weeks 1–3) W. 10 (Weeks 1–3) Th. 10 (Weeks 1–2)	Mathematical Institute, L2

Projective Geometry	Dr. Richard Earl	M. 9 (Weeks 1–3) Tu. 9 (Weeks 1–3) F. 9 (Weeks 1–2)	Mathematical Institute, L2
Calculus of Variations	Prof Paul Dellar	Tu. 10 (Weeks 1–3) W. 11 (Weeks 1–2) F. 10 (Weeks 1–3)	Mathematical Institute, L2
Graph Theory	Prof. Oliver Riordan	M. 11 (Weeks 1–3) W. 12 (Weeks 2–3) Th. 11 (Weeks 1–3)	Mathematical Institute, L2
Mathematical Modelling in Biology	Prof Philip Maini	Tu. 12 (Weeks 1–3) Th. 12 (Weeks 1–3) F. 12 (Weeks 1&3)	Mathematical Institute, L2
Fridays@2	Various	F. 2 (weeks TBD)	Mathematical Institute, L1
Part B			
Fridays@2	Various	F. 2 (weeks TBD)	Mathematical Institute, L1
Part C / OMMS			
Fridays@2	Various	F. 2 (weeks TBD)	Mathematical Institute, L1
COMPUTER SCIENCE			
Prelims			
Digital Systems	Dr Mark Van Der Wilk	W. 9 (Weeks 1–4) F. 9 (Weeks 3–4)	Department of Computer Science, Lecture Theatre A
Introduction to Proof Systems	Prof. Christoph Haase	M. 11 (Weeks 1–4) Tu. 11 (Weeks 1–4) F. 11 (Weeks 1–4)	Department of Computer Science, Lecture Theatre A
Part A			
No lectures.			
Part B			
No lectures.			
Part C			
No lectures.			
MATHEMATICS AND COMPUTER SCIENCE			
Prelims			
Introduction to Proof Systems	Prof. Christoph Haase	See computer science lecture list for details.	
I: Groups and Group Actions	Prof Nikolay Nikolov	Tu. 9 (Weeks 1–4) F. 9 (Weeks 1–4)	Mathematical Institute, L1
II: Analysis III: Integration	Prof Melanie Rupflin	M. 9 (Weeks 1–4) W. 9 (Weeks 1–4)	Mathematical Institute, L1
Part A			
No lectures.			
Part B			
No lectures.			

Part C			
No lectures.			

MATHEMATICS AND PHILOSOPHY			
Prelims			
Mathematics:			
I: Groups and Group Actions	Prof Nikolay Nikolov	Tu. 9 (Weeks 1–4) F. 9 (Weeks 1–4)	Mathematical Institute, L1
II: Analysis III: Integration	Prof Melanie Rupflin	M. 9 (Weeks 1–4) W. 9 (Weeks 1–4)	Mathematical Institute, L1
Philosophy:			
Frege	Prof. James Studd	See Philosophy lecture list for details.	
Part A Mathematics:			
The short option lectures above for MATHEMATICS Part A all apply.			
Part B			
Mathematics: No lectures. See MATHEMATICS above for further details.			
Philosophy: For further Philosophy lectures, please consult the Philosophy lecture list.			
Part C			
Mathematics: No lectures. See MATHEMATICS above for further details.			
Philosophy: For further Philosophy lectures, please consult the Philosophy lecture list.			
MATHEMATICS AND STATISTICS			
Prelims			
The lectures above for MATHEMATICS Prelims all apply.			
Part A			
The lectures above for MATHEMATICS Part A all apply.			
Part B			
No lectures. See MATHEMATICS above for further details.			

Part C
No lectures. See MATHEMATICS above for further details.

FOOTNOTE REFERENCES

* Lectures begin on the first day possible after the beginning of Full Term (**Sunday, 27 April),** unless otherwise stated in this column. Events take place every Week of Full Term (Weeks 1–8) unless otherwise stated.