MATHEMATICAL SCIENCES DIVISION OF MATHEMATICAL AND PHYSICAL LIFE SCIENCES Lecture List for Trinity Term 2024

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 20 March 2024

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	L5, Mathematical Institute
Algebraic Geometry Seminar	Prof. Frances Kirwan	Tu. 3:30–5	C6, Mathematical Institute (Week 1 in L5)
Applied Topology Seminar		F.3	L5, 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. Mike Giles	Th. 2	L3, Mathematical Institute (Week 3 in L4)
Fridays@4		F. 4	L1, Mathematical Institute
Functional Analysis	Prof. Stuart White	Tu. 4	C2, Mathematical Institute
Geometric Group Theory	Prof. Dawid Kielak	Tu. 3	L6, Mathematical Institute (Week 5 in L5)
Geometry and Analysis	Prof Dominic Joyce	M. 2–3.30	L4, Mathematical Institute
Industrial and Applied Mathematics		Th. 12	L3, Mathematical Institute
Junior Algebra & Representation Theory seminar	Jonas Antor, Mick Gielen	F. 12	N3.12, Mathematical Institute
Junior Combinatorics seminar	Jane Tan, Freddie Illingworth	F. 1-2:30	C5, Mathematical Institute
Junior Geometry Seminar	George Cooper, Andres Ibanez Nunez, Gilles Englebert	Th. 3 (even weeks)	L4, 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 (Week 5 in L2)
Machine Learning and Data Science Seminar	Dr Paz Fink Shustin	M. 2	L3, Mathematical Institute
Mathematical and Computational Biology	Prof. Philip Maini, Dr Peter Minary	F. 2	L3, Mathematical Institute (Week 1 in L2, Week 8 in L5)
Mathematical and Computational Finance Seminar	Prof. Rama Cont and Dr Anran Hu	Th. 4	L4, Mathematical Institute
Mathematical Geoscience	Prof lan Hewitt	F. 2 (even weeks)	L4, Mathematical Institute (Week 8 in L6)
Networks Seminar	Erik Hormann	Tu. 2	C4, Mathematical Institute
Nonlinear PDE	Prof. Gui-Qiang Chen	Th. 3:15–5:45	C5, Mathematical Institute
Number Theory	Aleksander Horawa and Lasse Grimmelt	Th. 4	L5, Mathematical Institute

Numerical Analysis Internal Seminar	Prof. Patrick Farrell, Prof. Yuji Nakatsukasa, Dr Charles	Tu. 2	L3, Mathematical Institute (Week 5 in L1)
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Partial Differential Equations Seminar	Prof. Andrea Modino and Prof. José Carrillo	M. 4.30	L4, Mathematical Institute
OxPDE lunchtime seminar	Dr Antonio Esposito and Alessandro Cucinotta	Th. 12	L5, Mathematical Institute
Probability	Prof. Christina Goldschmidt	M. 2	L5, Mathematical Institute
Quantum Field Theory/Relativity/Amplitudes	Prof. Lionel Mason and Prof. Chris Beem	F. 12–1:30	L3, Mathematical Institute (Week 8 in L5)
Random Matrix Theory Seminar	Prof Jon Keating	Tu. 4	L6, Mathematical Institute (Week 5 in L5)
Stochastic Analysis Internal Seminar	Prof. Massimiliano Gubinelli	Tu. 11	L5, Mathematical Institute
Stochastic Analysis and Mathematical Finance Seminar	Prof. Rama Cont and Prof. Massimiliano Gubinelli	M. 3:30	L3, Mathematical Institute
String Theory		Tu. 1	L2, Mathematical Institute
Topology Seminar	Prof. André Henriques and Prof. Panos Papazoglou	M. 3:30-5	L5, Mathematical Institute
Wolfson Centre for Mathematical Biology Journal Club	Prof. Philip Maini	M. 12	L4, Mathematical Institute
GRADUATE WORKSHOPS			
WORKSHOPS			
Industrial and Interdisciplinary Workshops	Prof. Chris Breward and Yixuan Sun	F. 9.45-11.15	L6, Mathematical Institute
ADVANCED CLASSES			
Logic	Prof Ehud Hrushovski	Th. 11	C3, Mathematical Institute
Topology	Prof André Henriques and Dr. Lukas Brantner	M. 11-12:30	C3, Mathematical Institute
GRADUATE LECTURES			
Recent Breakthroughs in Ramsey Theory	Dr Antonio Girao and Dr Marius Tiba	Th. 1-2:30 (Weeks 2-5) F. 1-2:30 (Weeks 2-5)	C4, Mathematical Institute
Combinatorics	Prof. Michael Krivelevich	F. 1:15-2:45 (Weeks 6-9)	C1, 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

Collinional Plaama Physica	Prof Sarah Newton	M. 9-11	Department of Physics,
Collisional Plasma Physics	Ploi Salali Newton		Fisher Room
Collisionless Plasma Physics Prof Alex Schekochihin	M. 5 (Weeks 1-3)	Department of Physics,	
	I TOT AIEX OCHEROCHIIIII	W. 5 (Weeks 1-4)	Lindemann

		F. 5 (Weeks 1, 2, 4)	
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 SC	CIENCES		
The lectures below for MATHE	EMATICS Part C/OMMS all apply.		
M.Sc in MATHEMATICS AND	THE FOUNDATIONS OF COM	PUTER SCIENCE	
Section A: Mathematical Fou	undations		
Schedule I			
No lectures.			
Schedule II			
Topological Groups	Prof. Tom Sanders	M. 10 Tu. 10	Mathematical Institute, C4
Section B: Applicable Theor	ies		I
Schedule I			
No lectures.			
Schedule II			
Applied Category Theory	Dr Carmen Constantin	F. 10	Mathematical Institute, L5
MATHEMATICS	•		
Prelims			
I: Groups and Group Actions	Prof Nikolay Nikolov	Tu. 10 (Weeks 1-4) W. 10 (Weeks 1-4)	Mathematical Institute, L1
II: Analysis III: Integration	Prof Marc Lackenby	W. 9 (Weeks 1-4) F. 10 (Weeks 1-4)	Mathematical Institute, L1
III: Statistics and Data Analysis	Prof Christl Donnelly	M. 9 (Weeks 1-4) M. 11 (Week 4 only) Tu. 9 (Weeks 1-3) Th. 10 (Weeks 1-4) F. 9 (Weeks 1-4)	Mathematical Institute, L1

IV: Constructive Mathematics	Prof Patrick Farrell	Tu. 10 (Weeks 1-4) Th. 9 (Weeks 1-4)	Mathematical Institute, L1
Fridays@2	Various	F. 2 (weeks TBD)	Mathematical Institute, L1
Part A			
Number Theory	Prof Kobi Kremnitzer	M. 12 (Weeks 1-3) Tu. 12 (Weeks 1-3) Th. 12 (Weeks 1-3)	Mathematical Institute, L2
Group Theory	Prof Emmanuel Breuillard	Tu. 11 (Weeks 1-2) W. 11 (Weeks 1-3) Th. 10 (Weeks 1-3)	Mathematical Institute, L2
Projective Geometry	Dr Lucas Mason-Brown	M. 2 (Weeks 2-3) W. 2 (Weeks 2-3) Th. 2 (Weeks 2-3) Th. 4 (Week 1) F. 3 (Week 1)	Mathematical Institute, L2
Multidimensional Analysis and Geometry	Prof Kevin McGerty	Tu. 9 (Weeks 1-3) W. 9 (Weeks 1-3) F. 12 (Weeks 1-2)	Mathematical Institute, L2
Calculus of Variations	Prof Paul Dellar	Tu. 10 (Weeks 1-3) W. 10 (Weeks 1-3) F. 10 (Weeks 1-2)	Mathematical Institute, L2
Graph Theory	Dr Richard Earl	M. 9 (Weeks 1-3) W. 12 (Weeks 1-3) F. 9 (Weeks 1-2)	Mathematical Institute, L2
Special Relativity	Prof Qian Wang	M. 11 (Weeks 2-3) Th. 11 (Weeks 1-3) F. 11 (Weeks 1-3)	Mathematical Institute, L2
Mathematical Modelling in Biology	Prof Philip Maini	M. 10 (Weeks 1-3) [L2] Tu. 2 (Weeks 1-3) [L1] Th. 9 (Weeks 1-2) [L2]	Mathematical Institute, L1/L2
Fridays@2	Various	F. 2 (weeks TBD)	Mathematical Institute, L1
Part B		- 1	
Fridays@2	Various	F. 2 (weeks TBD)	Mathematical Institute, L1
Part C / OMMS		<u> </u>	
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	1	, , , , , , , , , , , , , , , , , , , ,	-1
No lectures.			
Part B			
No lectures.			
Part C			

No lectures.			
MATHEMATICS AND COMPL	JTER SCIENCE		
Prelims			
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
I: Groups and Group Actions	Prof Nikolay Nikolov	Tu. 10 (Weeks 1-4) W. 10 (Weeks 1-4)	Mathematical Institute, L1
II: Analysis III: Integration	Prof Marc Lackenby	W. 9 (Weeks 1-4) F. 10 (Weeks 1-4)	Mathematical Institute, L1
Part A			
No lectures.			
Part B			
No lectures. Part C			
No lectures.			
MATHEMATICS AND PHILOS	БОРНҮ		
Prelims			
Mathematics:			
I: Groups and Group Actions	Prof Nikolay Nikolov	Tu. 10 (Weeks 1-4) W. 10 (Weeks 1-4)	Mathematical Institute, L1
II: Analysis III: Integration	Prof Marc Lackenby	W. 9 (Weeks 1-4) F. 10 (Weeks 1-4)	Mathematical Institute, L1
Philosophy:		· · · · · · · · · · · · · · · · · · ·	
Frege	Prof. James Studd	TBC	TBC
Part A Mathematics:			
The short option lectures abov	e for MATHEMATICS Part A	all apply.	
Part B			
Mathematics: No lectures. Se	e MATHEMATICS above for	further details.	
Philosophy: For further Philos	sophy lectures, please consul	t the Philosophy lecture list.	
Part C			
Mathematics: No lectures. Se	e MATHEMATICS above for	further details.	
Philosophy: For further Philos	sophy lectures, please consul	t the Philosophy lecture list.	
MATHEMATICS AND STATIS	STICS		
Prelims			
The lectures above for MATHE	EMATICS 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, 21 April**), unless otherwise stated in this column. Events take place every Week of Full Term (Weeks 1–8) unless otherwise stated.