

MATHEMATICAL SCIENCES

DIVISION OF MATHEMATICAL PHYSICAL AND LIFE SCIENCES

Lecture List for Trinity Term 2017

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 27 April 2017

Events shown on this list are generally one hour long unless stated otherwise.

<i>Subject</i>	<i>Lecturer</i>	<i>Time*</i>	<i>Place</i>
GRADUATE SEMINARS			
Algebra Seminar	Prof. Kevin McGerty, Prof. Nikolay Nikolov and Prof. Martin Bridson	T.2.15-3.30 (weeks 1,3-7 [L4], week 2, 8 [L3])	Mathematical Institute, L4, L3
Algebraic and Symplectic Geometry	Prof. Dominic Joyce and Prof. Balazs Szendroi	T.3:45-5 (weeks 1-7 [L4], week 8 [L5])	Mathematical Institute, L4, L5
Analytic Topology in Mathematics and Computer Science	Prof. Samson Abramsky, Dr Peter Collins, Dr Robin Knight, Prof. Hilary Priestley, Prof. Bill Roscoe and Dr Rolf Suabedissen	W.4-5:30	Mathematical Institute, C4
Arithmetic Algebraic Geometry Seminar	Prof. Francis Brown, Prof. Minhyong Kim and Prof. Damian Rössler	F.11	Mathematical Institute, C3
Combinatorial Theory	Prof. Alex Scott	T.2:30-3:45 and 4:30-6 (weeks 1,5 [L3], weeks 2-4,6-8 [L6])	Mathematical Institute, L5, L6
Computational Mathematics and Applications	Prof. Nick Trefethen and Dr Tyrone Rees (RAL)	Th.2 (weeks 1-6 [L4], week 7 [L2] week 8 [L6])	Mathematical Institute, L4, L2, L6
Cryptography Seminar	Dr Ali El Kaafarani	W.3 (weeks 1,7-8 [L3], weeks 2-6 [L4])	Mathematical Institute, L3, L4
Department of Computer Science Seminar	Prof. Georg Gottlob	T.4:30	Department of Computer Science
Fridays@4	Prof. Frances Kirwan, Prof. Andreas Muench, Dr Vicky Neale	F.4	Mathematical Institute, L1
Functional Analysis	Prof. Charles Batty	T.5-6:30	Mathematical Institute, C1
Geometry and Analysis	Prof Andrew Dancer and Prof Frances Kirwan	M.2.15-3:30 (weeks 1-7 [L4], week 8 [L5])	Mathematical Institute, L4, L5
Geophysical and Non-linear Fluid Dynamics	Prof. Peter Read and Prof. Irene Moroz	T.2:15	Atmospheric Physics
Homological Theory	Prof. Kobi Kremnitzer	W.10-12 (weeks 1,7-8 [L3], weeks 2-6 [L4])	Mathematical Institute, L3, L4
Industrial and Applied Mathematics	Dr Robert Van Gorder	Th.4-5.30 (weeks 1-4,6-8 [L3], week 5 [L2])	Mathematical Institute, L2, L3
Junior Algebra and Representation Theory	Mr Kieran Calvert	F.10 (odd weeks)	Mathematical Institute, N3.12
Junior Applied Mathematics	Mr Mark Gilbert	T.12.45-2:00 (even weeks)	Mathematical Institute, C5
Junior Analytic Topology	Mr Robert Leek	Th. 1.30-3.00 (weeks 1-6,8 [C5], week 7 [C1])	Mathematical Institute, C5, C1
Junior Computational Algebra and Topology Seminar	Ms Barbara Mahler, Ms Nina Otter, and Ms Bernadette Stolz	T.1	Mathematical Institute, C1
Junior Geometry and Topology Seminar	Mr Alejandro Betancourt De La Parra	Th.4-5:30 (weeks 1-7 [C5], week 8 [C6])	Mathematical Institute, C5, C6
Junior Logic	Mr Felix Weitkämper	T.2.30	Mathematical Institute, C4
Junior Number Theory	Prof. Ben Green and Prof. Minhyong Kim	M.4-6	Mathematical Institute, C3
Junior Topology and Group Theory	Mr Nicolaus Heuer	W.4-5:30	Mathematical Institute, C5
Kinderseminar	Mr Kieran Calvert	W.11-12.30	Mathematical Institute, N3.12
Logic	Prof. Jochen Koenigsmann	Th.5.30 (week 1 [L4], week 2-8 [L6])	Mathematical Institute, L4, L6

Mathematical Behavioural Finance		W.3	Oxford-Man Institute
Mathematical and Computational Biology	Prof. Philip Maini, Prof. Ruth Baker, Prof. Eamonn Gaffney, Dr Peter Minary and Dr David Gavaghan	F.2 (weeks 2-3,6-7 [L3], weeks 1,5,8 [L2] week 4 [L1])	Mathematical Institute, L3, L2, L1
Mathematical and Computational Finance	Prof. Jan Obloj	Th.4-5.30 (weeks 1-6 [L4], week 7 [L2] week 8 [C4])	Mathematical Institute, L2, L4, C4
Mathematical Finance Internal Seminar	Prof. Samuel Cohen	F.1 (weeks 1,8 [L2] weeks 2-7 [L6])	Mathematical Institute, L2, L6
Mathematical Geoscience	Prof. Andrew Fowler & Prof. Ian Hewitt	F.2-3.30 (even weeks)	Mathematical Institute, C3
Networks Journal Club	Dr Marya Bazzi	Th.12-1.30 (weeks 1-7 [C1, week 8 [C4])	Mathematical Institute, C1, C4
Nonlinear PDE	Prof. Gui-Qiang Chen	Th.3.30-5.30 (weeks 1-7 [C3], week 8 [C5])	Mathematical Institute, C3, C5
Number Theory	Prof. Ben Green and Prof. Sir Andrew Wiles	Th.4 (week 1 [L2], weeks 2-8 [L6])	Mathematical Institute, L2, L6
Numerical Analysis Internal Seminar	Prof. Nick Trefethen	T.2 (week 1 [L2], week 4-6,8 [L5], week 2-3,7 [L3])	Mathematical Institute, L2, L3, L5
Oxford Advanced Seminar on Informatic Structures	Dr Mehrnoosh Sadrzadeh	F.2	Department of Computer Science
Partial Differential Equations Seminar	Prof. Luc Nguyen	M.4 (weeks 1-7 [L4], week 8 [L5])	Mathematical Institute, L4, L5
PDE CDT lunchtime seminar	Dr Angkana Ruland	Th.12 (weeks 1-6 [L4], week 7 [L2], week 8 [L3])	Mathematical Institute, L3, L4, L2
Poincare Seminar	Prof. Martin Bridson and Prof. Marc Lackenby	M.12.30-2:00	Mathematical Institute, C2
Probability Workshops	Prof. Alison Etheridge	M.12-1.30 (weeks 1-7 [L4], week 8 [L5])	Mathematical Institute, L4, L5
Quantum Field Theory/Relativity	Dr Keith Hannabuss and Dr Florence Tsou	T.12-1:30 (weeks 1-7 [L4], week 8 [L5])	Mathematical Institute, L4, L5
Representation Theory	Prof. Kobi Kremnizer & Prof. Kevin McGerty	Th.2-4 (weeks 1-4, 6-8 [L3], week 5 [L2])	Mathematical Institute, L2, L3
Solid and Liquid Crystals	Prof. Sir John Ball	T.11-1	Mathematical Institute, C1
Statistics Applied Probability and Operational Research	Prof. Yee Whye The	Th.2:15	Department of Statistics
Statistics Graduate Seminar	Prof. Geoff Nicholls	Th.3.45(weeks 1 and 3-6)	Department of Statistics
Statistics Graduate Student Presentations	Prof. Geoff Nicholls	Th.3 (week 7)	Department of Statistics
Stochastic Analysis	Prof Terry. Lyons	M. 2.15-3.30 M.3.45-5	Mathematical Institute, L3
Stochastic Differential Games Reading Seminar	Prof. Samuel Cohen	Time t.b.c on a weekly basis	Mathematical Institute
String Theory	Prof. Philip Candelas and Prof. Xenia de la Ossa	M.12-2	Mathematical Institute, L3
String Theory Discussion Seminar	Dr Tomasz Lukowski	Th.12-2 (week 1,7 [L3], weeks 2-6, 8 [L6])	Mathematical Institute, L3, L6
Topology Seminar	Prof. Cornelia Drutu, Prof. Andras Juhasz, Prof Ulrike Tillmann	M.3:30-5 (week 1 [L2], weeks 2-4,6-8 [L6], week 5 [L5])	Mathematical Institute, L2, L6, L5
Wolfson Centre for Mathematical Biology Journal Club	Prof. Philip Maini	M.12-1:30 week 1 [L1], weeks 2-4,6-8 [L6], week 5 [L5]	Mathematical Institute, L1, L5, L6
GRADUATE WORKSHOPS			
InFoMM Problem Solving Squad	Prof. Nick Trefethen	W. 9.30-10 (week 1) W. 9.30-11 (weeks 2-3) T.9.30-11 (week 4)	Mathematical Institute, S2.37
WORKSHOPS			

Industrial and Interdisciplinary Workshops	Prof. Chris Breward	F.10–1 (weeks 1-7 [L4, week 8 [L2]	Mathematical Institute, L4, L2
ADVANCED CLASSES			
Iterated Integrals	Prof. Francis Brown	F.10	Mathematical Institute, C3
Logic	Prof Ehud Hrushovski	Th.11–12:30 (weeks 1-6,8 [C5], week 7 [L6])	Mathematical Institute, C5, L6
Representation Theory	Dr Lisa Lamberti	Th.10	Mathematical Institute, C5
Topology	Prof. Ulrike Tillmann	M.11-12.30	Mathematical Institute, C2
GRADUATE LECTURES			
Introduction to the model theory of global fields	Prof. Ehud Hrushovski	Th.2-4 (weeks 1-6,8 [C4] week 7 [N3.12])	Mathematical Institute, C4, N3.12
TAUGHT COURSE CENTRE			
<p>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</p>			
EPSRC CDT in INDUSTRIALLY FOCUSED MATHEMATICAL MODELLING			
No lectures.			
EPSRC CDT in PARTIAL DIFFERENTIAL EQUATIONS			
Analysis of PDEs	Prof. Gui-Qiang Chen	F.11-1 (week 1 [C5]), W. 2-4 (weeks 2-7 [C1], week 8 [C4])	Mathematical Institute, C5, C1, C4
CDT Student Seminar		F.2-4 (weeks 1,8 [C4], weeks 2-7 [L4])	Mathematical Institute, C4, L4
Geometric Analysis & PDE Reading Course	Prof Andrew Dancer, Prof Luc Nguyen and Prof Melanie Rupflin	T.2-4 (weeks 1-2, 5-6,8) [C1] F.9-11 (week 1) [C4] M.9-11 (week 3-4) [C5] T.2-4 (week 9) [N3.12]	Mathematical Institute, C1, C4, C5, N3.12
Nonlinear Analysis & Applications Reading Course	Dr Jan Burczak	M.11-1	Mathematical Institute, C3
Scientific Computing & Numerical Analysis Reading Course	Prof. Endre Suli	Th.9-11	Mathematical Institute, C4
Stochastic Analysis & PDE Reading Course	Prof. Ben Hambly	Th.1.30-4 (weeks 1-6 [C1], week 7 [L6], week 8 [C6])	Mathematical Institute, C1, L6, C6
M.Sc. MATHEMATICAL AND COMPUTATIONAL FINANCE			
Quantitative Risk Management (module 8 joint with part-time MScMF)	Various	T-F 9-5 (week 0)	Mathematical Institute, L5
Financial Computing with C++ 2	Prof Kramkov	M-F 9-12 (week 10) Lectures & Practical sessions	Mathematical Institute, L6
		M-F 1.30-3.30 (week 10) Help Sessions	Mathematical Institute, L6
	Prof Kramkov	M-Th (week 11) 9-12 Help sessions with tutor 1.30-3.30 Help sessions with Prof Kramkov	Mathematical Institute, L6 [M-W] and VC1 [Th.]
Financial Computing with C++ Part II Exam		F.9-12 (week 11)	Lecture room 10, Ewert House

M.Sc IN MATHEMATICAL AND THEORETICAL PHYSICS			
Astrophysical Gas Dynamics	Prof. Philip Podsiadlowski	M.11-1 (weeks 1-5)	Department of Physics, Fisher Room
Astroparticle Physics	Prof. Subir Sarkar	M.Th.10	Department of Physics, Fisher Room
Beyond the Standard Model	Prof. John March-Russell	T.W.11-12.30 (weeks 1,3-4,7-8) Th. 11.30-1 (week 1)	Department of Physics, Fisher Room
Collisional Plasma Physics	Prof. Felix Parra-Diaz	M.2-4	Department of Physics, Fisher Room
Conformal Field Theory	Prof. Fernando Alday	M.2-4 (week 1-2 [C2] W.F.2-4 (weeks 1 [L4], weeks 2-3 [L6])	Mathematical Institute, L6, L4, C2
Introduction to Gauge String Duality	Prof. Andrei Starinets	F.9-11	Department of Physics, Fisher Room
Non-perturbative Methods in Quantum Field Theory	Prof. Mike Teper	T.4 (weeks 2-5) Th.2 (weeks 2-5)	Department of Physics, Fisher Room
Quantum Field Theory in Curved Space-Time	Dr Tomas Andrade	F.11 Th.12 (week 1 [Maths L1], week 2 [Maths L2], weeks 3-8 [Physics Fisher Room])	Mathematical Institute, L1, L5 Department of Physics, Fisher Room
String Theory II	Prof. Philip Candelas	M.Th. 9 (weeks 1-4) [C2] T.W.9 (weeks 1-4) [C3] F.4 (week 1) [C4]	Mathematical Institute, C2, C3, C4
The Standard Model	Dr Jorge Casalderrey Solana	T.10 (weeks 1 and 3-8) Th.3 (weeks 3-4, 8) F.12 (weeks 1, 3-7)	Department of Physics, Fisher Room
Topics in Quantum Condensed Matter Physics	Prof. John Chalker	W.10	Department of Physics, 501
Topics in Soft and Active Matter Physics	Prof. Julia Yeomans	TBC	Department of Physics,
M.Sc IN MATHEMATICAL MODELLING AND SCIENTIFIC COMPUTING			
SPECIAL TOPICS			
C++ for Scientific Computing	Dr Joe Pitt-Francis	M-F, all day (week 1 only)	Department of Computer Science
Algorithmic Differentiation	Prof Uwe Naumann	T.10-12 (weeks 2-7)	Mathematical Institute, L4
Python in Scientific Computing	Dr Patrick Farrell	M-F, all day (week 3 only)	Mathematical Institute, L5
M.Sc IN MATHEMATICS AND THE FOUNDATIONS OF COMPUTER SCIENCE			
Section A: Mathematical Foundations			
<i>Schedule I</i>			
<i>Schedule II</i>			
Section B: Applicable Theories			
<i>Schedule I</i>			
<i>Schedule II</i>			

MATHEMATICS			
Prelims			
I: Groups and Group Actions	Dr Vicky Neale	M.10 W.10 (weeks 1–4)	Mathematical Institute, L1
II: Analysis III: Integration	Prof. Ben Green	T.10 F.10 (weeks 1-4)	Mathematical Institute, L1
III: Statistics and Data Analysis	Dr Neil Laws and Prof. Jonathan Marchini	M.9 W.9 Th.10 F.9 (weeks 1-4)	Mathematical Institute, L1
IV: Constructive Mathematics	Prof. Andy Wathen	T.9 Th.9 (weeks 1-4)	Mathematical Institute, L1
Prelims Preparation Lecture	Dr Richard Earl	F.11 (week 4 only)	Mathematical Institute, L1
Part A			
Number Theory	Prof. Ben Green	M.10 (weeks 1-3) [L2] F.2 (weeks 1-3) [L1] W.12 (weeks 1-2) [L1]	Mathematical Institute, L1, L2
Group Theory	Prof. Ulrike Tillmann	M.9 M.11 (weeks 1-3) T.9 (weeks 2-3)	Mathematical Institute, L2
Projective Geometry	Prof. Balazs Szendroi	M.3 (week 1) [L1] M.2 (weeks 2-3) [L1] Th.11 (weeks 1-3) [L2] F.9 (weeks 2-3) [L2]	Mathematical Institute, L2, L1
Introduction to Manifolds	Prof. Balazs Szendroi	M.12 Th.10 (weeks 1-3) T.2 (week 2-3)	Mathematical Institute, L2
Calculus of Variations	Prof. Philip Maini	T.12 Th.12 (weeks 1-3) F.10 (weeks 1-2)	Mathematical Institute, L2
Graph Theory	Prof. Peter Keevash	W.10 F.11 (weeks 1-3) T.11 (week 1-2)	Mathematical Institute, L2
Special Relativity	Prof. Christopher Beem	W.11 [L1] F.12 [L2] (weeks 1-3) Th.2 (weeks 1-2) [L1]	Mathematical Institute, L1, L2
Mathematical Modelling in Biology	Prof. Ruth Baker	T.10 Th.9 (weeks 1-3) W.9 (weeks 1-2)	Mathematical Institute, L2
Finals Forum	Dr Richard Earl	F.3 (week 2 only)	Mathematical Institute, L2
<i>*Special Lecture*</i> Diversity in Machine Learning	Dr Stefanie Jegelka and Dr Raia Hadsell	Th.2-6 (week 5)	Department of Statistics
Part B			
No lectures			
Finals Forum	Dr Richard Earl	F.3 (week 2 only)	Mathematical Institute, L2
Part C			
No lectures			

COMPUTER SCIENCE			
Prelims			
Imperative Programming II			Department of Computer Science
Digital Systems			Department of Computer Science
Introduction to Formal Proof			Department of Computer Science
MATHEMATICS AND COMPUTER SCIENCE			
Prelims			
Imperative Programming II			Department of Computer Science
I: Groups and Group Actions	Dr Vicky Neale	M.10 W.10 (weeks 1–4)	Mathematical Institute, L1
II: Analysis III: Integration	Prof. Ben Green	T.10 F.10 (weeks 1-4)	Mathematical Institute, L1
COMPUTER SCIENCE			
Part A			
Computer Architecture			Department of Computer Science
Computer Networks			Department of Computer Science
MATHEMATICS & COMPUTER SCIENCE			
Part A			
The short option lectures above for MATHEMATICS Part A all apply.			
COMPUTER SCIENCE, MATHEMATICS & COMPUTER SCIENCE			
Part B			
Computer Architecture			Department of Computer Science
Computer Networks			Department of Computer Science
Part C			
Requirements			Department of Computer Science
MATHEMATICS AND PHILOSOPHY			
Prelims			
Mathematics:			
I: Groups and Group Actions	Dr Vicky Neale	M.10 W.10 (weeks 1–4)	Mathematical Institute, L1
II: Analysis III: Integration	Prof. Ben Green	T.10 F.10 (weeks 1-4)	Mathematical Institute, L1

[Papers I and II are compulsory papers for Prelims in Mathematics and Philosophy.]			
Philosophy:			
Frege	Dr Steven Methven	T.12 (weeks 1,2,4-7)	Mathematical Institute, L3
Part A Mathematics:			
The short option lectures above for MATHEMATICS Part A all apply.			
Part B Mathematics			
Finals Forum	Dr Richard Earl	F.3 (week 2 only)	Mathematical Institute, L2
Part B Philosophy:			
[For further Philosophy lectures, please consult the Philosophy lecture list]			
Part C Mathematics: Logic			
No lectures. [See Philosophy list for Philosophy subjects which may be offered.]			
MATHEMATICS AND STATISTICS			
Prelims			
The lectures above for MATHEMATICS Prelims all apply.			
Part A			
The short options lectures above for MATHEMATICS Part A all apply.			
Part B			
No lectures			
Part C			
No lectures			

FOOTNOTE REFERENCES

- * Lectures begin on the first day possible after the beginning of Full Term (Sunday, 23 April), unless otherwise stated in this column. Events take place every Week of Full Term (Weeks 1–8) unless otherwise stated.