# 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 <br> Seminar | Prof. Patrick Farrell, Prof. Yuji <br> Nakatsukasa, Dr Charles <br> Parker | Tu. 2 | L3, Mathematical Institute <br> (Week 5 in L1) |
| :--- | :--- | :--- | :--- |
| Partial Differential Equations <br> Seminar | Prof. Andrea Modino and Prof. <br> José Carrillo | M. 4.30 | L4, Mathematical Institute |
| OxPDE lunchtime seminar | Dr Antonio Esposito and <br> Alessandro Cucinotta | Th. 12 | L5, Mathematical Institute |
| Probability | Prof. Christina Goldschmidt | M. 2 | L5, Mathematical Institute |
| Quantum Field <br> Theory/Relativity/Amplitudes | Prof. Lionel Mason and Prof. <br> Chris Beem | F. 12-1:30 | L3, Mathematical Institute <br> (Week 8 in L5) |
| Random Matrix Theory <br> Seminar | Prof Jon Keating | Lrof. Massimiliano Gubinelli | Tu. 11 |
| Stochastic Analysis Internal <br> Seminar | Prathematical Institute |  |  |
| (Week 5 in L5) |  |  |  |


|  |  | F. 5 (Weeks 1, 2, 4) |  |
| :--- | :--- | :--- | :--- |
| Conformal Field Theory | Dr Romain Ruzziconi | Tu. 3-5 (Weeks 2-3) [L5] <br> W. 3-5 (Weeks 2-4) [L5] <br> Th. 3-5 (Weeks 2-4) [L3] | Mathematical Institute, <br> L3/L5 |
| Galactic and Planetary <br> Dynamics | Prof John Magorrian | W. 4 (Weeks 1-6) <br> Th. 2-4 (Weeks 1-6) | Department of Physics, <br> Fisher Room |
| Quantum Field Theory in <br> Curved Space | Dr Pieter Bomans | M. 9-11 (Weeks 1-4) [L5] <br> F. 3-5 (Weeks 1-4) [L4] | Mathematical Institute, L4/L5 |
| Quantum Matter II | Prof Fabian Essler | M. 11-1 (Weeks 1-5) <br> Tu. 2-4 (Weeks 1-5) | Department of Physics, <br> Fisher Room |
| String Theory II | Prof Xenia de la Ossa | Tu. 9-11 (Weeks 1-4) <br> W. 9-11 (Weeks 1-4) | Mathematical Institute, L3 |


| IV: Constructive Mathematics | Prof Patrick Farrell | Tu. 10 (Weeks 1-4) <br> Th. 9 (Weeks 1-4) | Mathematical Institute, L1 |  |
| :--- | :--- | :--- | :--- | :--- |
| Fridays@2 | Various | F. 2 (weeks TBD) | Mathematical Institute, L1 |  |
| Part A | Prof Kobi Kremnitzer |  | M. 12 (Weeks 1-3) <br> Tu. 12 (Weeks 1-3) <br> Th. 12 (Weeks 1-3) | Mathematical Institute, L2 |


| No lectures. |  |  |  |
| :---: | :---: | :---: | :---: |
| MATHEMATICS AND COMPUTER SCIENCE |  |  |  |
| Prelims |  |  |  |
| Introduction to Proof Systems | Prof. Christoph Haase | M. 11 (Weeks 1-4) <br> Tu. 11 (Weeks 1-4) <br> 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 | $\begin{aligned} & \hline \text { W. } 9 \text { (Weeks 1-4) } \\ & \text { F. } 10 \text { (Weeks 1-4) } \end{aligned}$ | 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. 10 (Weeks 1-4) W. 10 (Weeks 1-4) | Mathematical Institute, L1 |
| II: Analysis III: Integration | Prof Marc Lackenby | W. 9 (Weeks 1-4) <br> F. 10 (Weeks 1-4) | Mathematical Institute, L1 |
| Philosophy: |  |  |  |
| Frege | Prof. James Studd | TBC | TBC |
| 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, 21 April), unless otherwise stated in this column. Events take place every Week of Full Term (Weeks 1-8) unless otherwise stated.

