

MATHEMATICAL SCIENCES

DIVISION OF MATHEMATICAL AND PHYSICAL SCIENCES

Lecture List for Trinity Term 2007

There may be late changes and amendments to this Lecture List. For an up-to-date version, please check the Mathematical Institute Website: <http://www.maths.ox.ac.uk/notices/lecture-lists>

This version updated 9 March 2007

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

| <i>Subject</i> | <i>Lecturer</i> | <i>Time</i> | <i>Place(Period*)</i> |
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| GRADUATE SEMINARS | | | |
| Algebra | Dr M J Collins and Prof D Segal | T.5 | Mathematical Institute, L1 |
| Algebraic Geometry | Prof Kirwan and Dr Szendroi | T.2.15 – 3.30 | Mathematical Institute, SR2 |
| Analysis of Informatic Phenomena | Dr Coecke | F.2 | Computing Laboratory |
| Analytic Topology in Mathematics and Computer Science | Prof Abramsky, Dr P J Collins, Dr Knight, Prof Priestley and Prof Roscoe | W.4-5.30 | Mathematical Institute, L3 |
| Applied Analysis | Prof Ball, Dr Kirchheim and Dr Kristensen | M.5 | Mathematical Institute, L1 |
| Applied Dynamical Systems | Dr Moroz | T.11-12.30 | Mathematical Institute, DHSR3 |
| Combinatorial Theory | Prof McDiarmid and Prof Scott | T. 2.30 – 3.45 [L3], T. 4.30 [New Higman Room] | Mathematical Institute, L3, New Higman Room |
| Computational Mathematics and Applications | Prof Trefethen and Dr J Scott (RAL) | Th.2 | Computing Laboratory |
| Computing Laboratory Seminar | Dr Baltag | T.4.30 | Computing Laboratory |
| Differential Equations and Applications | Dr Howison, Dr J Ockendon and Prof Chapman | Th.4.30 (<i>DH Common Room, wks 2, 8, DHSR1 other weeks</i>) | Mathematical Institute, DHSR1, DH Common Room |
| Functional Analysis | Dr C. Martin Edwards | T.5 | Mathematical Institute, L3 |
| Geometry and Analysis | Prof Hitchin | M.2.15 | Mathematical Institute, L3 |
| Geophysical Fluids and Nonlinear Dynamics | Prof Read and Dr Moroz | T.4.30 (<i>wks 1,3,5,7</i>) | Atmospheric Physics, Dobson Room |
| Graphical Models | Prof Lauritzen | F.4 | Statistics Department |
| Homological Mirror Symmetry | Prof Joyce | T.3.45 - 5 | Mathematical Institute, L3 |

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| Junior Applied Mathematics | Miss Carter and Miss Pitcher | F. 4.30 (<i>weeks 2,4,6,8</i>) | Mathematical Institute, DHSR3 |
| Junior Number Theory | Prof Heath-Brown | M.4 | Mathematical Institute, SR1 |
| Junior Geometry Seminar | Mr Shah | Th.12 | Mathematical Institute, SR1 |
| Junior Logic | Mr Bew | Th. 2 | Mathematical Institute, SR1 |
| Logic | Prof Wilkie | F.3.15 | Mathematical Institute, L3 |
| Mathematical Biology | Prof Maini, Dr Tindall and Dr Gaffney | F.2-3.15 (<i>wks 1, 3, 5, 7</i>) | Mathematical Institute, L3 |
| Mathematical Finance | Dr Danilova | F.2.15 (<i>wks 2,4,6,8</i>) | Mathematical Institute, DHSR2 (<i>wk 2</i>), DHSR3 (<i>wks 3,5,7</i>), DHSR1 (<i>wk 6</i>), DH Common Room (<i>wk 8</i>) |
| Mathematical Genetics and Bioinformatics | Dr Falush | T.4.30 | Oxford Centre for Gene Function, Seminar Room |
| Mathematical Geoscience | Dr Fowler & Dr Norbury | F.2.30 (<i>wks 2,4,6,8</i>) | Mathematical Institute, DHSR3 |
| Mathematical Physics Journal Club | Prof Mason | W.12 | Mathematical Institute, F20 |
| Number Theory | Prof Heath-Brown | Th.4 | Mathematical Institute, L3 |
| Quantum Field Theory | Dr Hannabuss and Dr Tsou | T.12 | Mathematical Institute, L3 |
| Relativity | Prof Mason | T.12 | Mathematical Institute, L3 |
| Representation Theory | Dr Erdmann and Dr Henke | Th.2.30 | Mathematical Institute, L3 |
| Statistics, Applied Probability and Operational Research | Prof Reinert and Prof Sir David Cox | Th.2.15 (<i>weeks 1,3,4,5,6</i>) | Statistics Department |
| Statistics Graduate Seminar | Prof Reinert and Prof Sir David Cox | Th.3.45 (<i>weeks 1,3,4,5,6</i>) | Statistics Department |
| Statistics General Seminar | Prof Reinert and Prof Sir David Cox | Th.2.15 (<i>weeks 2,8</i>) | Statistics Department |
| Statistics Graduate Student Presentations | Dr Clifford | Th. 2.15 (<i>week 7</i>) | Statistics Department |
| Stochastic Analysis | Prof Lyons | M.2.15-3.45, 3.45-5.00 | Mathematical Institute, DHSR3 |
| String Theory | Prof Candelas and Dr de la Ossa | M.12 | Mathematical Institute, L3 |
| Topology | Prof Tillmann and Prof Lackenby | M.3.45 | Mathematical Institute, L3 |
| GRADUATE WORKSHOPS | | | |
| Stochastic Analysis | Prof Lyons | T.11 | Mathematical Institute, F19 |

| WORKSHOPS | | | |
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| Industrial and Interdisciplinary Workshops | Dr Breward | F.10-1 (<i>exact times vary</i>) | Mathematical Institute, DHSR3 |
| ADVANCED CLASSES | | | |
| Algebra | Prof du Sautoy and Prof D Segal | T.3-4.30 | Mathematical Institute, SR1 |
| Logic | Prof Zilber | Th.11 | Mathematical Institute, SR1 |
| Representation Theory | Dr Erdmann and Dr Henke | W.5 | Mathematical Institute, SR1 |
| Junior Representation Theory | Mr Craven | W.4 | Mathematical Institute, SR1 |
| GRADUATE LECTURES | | | |
| The Structure of Spaces and Manifolds | Prof G. Segal | W.Th.10 | Mathematical Institute, SR1 |
| Local Minimizers and Phase Transformations | Prof Ball | Th.10, F.11 (L3) (<i>wk 1, 3-8</i>) T.11 (L2) W.11 (L3) (<i>wk 2 only</i>) | Mathematical Institute, L2, L3 |
| M.Sc. AND DIPLOMA IN APPLIED STATISTICS | | | |
| Infectious Diseases | Dr C Donnelly | T. 2-4 (<i>wks 1-3</i>) | Statistics Department |
| M.Sc IN MATHEMATICAL MODELLING AND SCIENTIFIC COMPUTING | | | |
| C++ for Scientific Computing | Dr J Whiteley | M.T.W.Th.F 9-1 and 2-5 (<i>wk 1 only</i>) | Computing Laboratory |
| Advanced Topics in Mathematical Finance | Dr Hambly, Dr Howison, Dr Monoyios | W. 12-2 | Mathematical Institute, DHSR1 |
| Spectral Methods for ODE and PDE | Prof Trefethen | T.F.12 (<i>wks 2-7</i>) | Computing Laboratory |
| Nonlinear Dynamics and Chaos | Dr McSharry | M.W.F.9-11 (<i>wks 3,4</i>) | Mathematical Institute, SR2 |
| Mathematics for Geoscience | Dr Farmer | Th. 11-1 (<i>wks 1,2,4-7</i>) | Mathematical Institute, DHSR3 |
| Optimization in Finance | Dr Hauser | W.F. 11 (<i>wks 2-7</i>) | Computing Laboratory |
| Cryptography | Mr Bond | T. 3-5 (<i>wks 2-7</i>) | Mathematical Institute, DHSR3 |
| Numerically Intensive Scientific Computing | Dr Salvini | M.T.W.Th.F 9-1 and 2-5 (<i>wk 8 only</i>) | Computing Laboratory |
| M.Sc IN COMPUTER SCIENCE | | | |
| <i>Schedule A</i> | | | |
| No lectures | | | |

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| Schedule B | | | |
| Computers in Society | Dr Carusi | T. 2-4 | Computing Laboratory |
| M.Sc IN MATHEMATICS AND THE FOUNDATIONS OF COMPUTER SCIENCE | | | |
| Section A: Mathematical Foundations | | | |
| Schedule I | | | |
| No lectures | | | |
| Schedule II | | | |
| No lectures | | | |
| Section B: Applicable Theories | | | |
| Schedule I | | | |
| No lectures | | | |
| Schedule II | | | |
| No lectures | | | |
| MATHEMATICS | | | |
| Moderations | | | |
| A: Some Theory of Sets and Groups | Dr Scataglini-Belghitar | M. 11, W. 12 (<i>wks 1-4</i>) | University Museum |
| B: Analysis III – Integration | Prof Lyons | M.Th. 12 (<i>wks 1-4</i>) | University Museum |
| B: Geometry II | Dr Earl | T.F. 12 (<i>wks 1-4</i>) | University Museum |
| D: Calculus in Three Dimensions and Applications | Dr Kirchheim | T.W.Th.F. 11 (<i>wks 1-4</i>) | University Museum |
| Mods Preparation Lecture | Dr Dyson | T.12 (<i>wk 5</i>) | University Museum |
| Part A | | | |
| Electromagnetism | Prof Tod | M.W. 9 (<i>wks 1-4</i>) | Mathematical Institute, L2 |
| Multivariable Calculus | Dr Day | T.Th. 10 (<i>wks 1-4</i>) | Mathematical Institute, L2 |
| Number Theory | Prof Heath-Brown | T.Th. 12 (<i>wks 1-4</i>) | Mathematical Institute, L2 |
| Part B | | | |
| N101: History of Philosophy: Berkeley | Dr Kail | M.F.10 (<i>wks 1-4</i>) | Exam Schools (Mondays), 10 Merton St , Lecture Room (Fridays) |
| Philosophy of Mathematics Revision Class | Dr Isaacson | M. 11-1230 (<i>wks 1-4</i>) | 10 Merton St, Lecture Room |

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| Part C | | | |
| No lectures | | | |
| COMPUTER SCIENCE | | | |
| Moderations | | | |
| Models of Computation | Dr Nickau | M.T.W.Th.F. 10 (<i>wk 1</i>) M.T.W.Th. 10 (<i>wks 2,3</i>) M.T.W. 10 (<i>wk 4</i>) | Computing Laboratory |
| Digital Hardware | Dr Calinescu | T.W.Th.F. 11 (<i>wks 1-4</i>) | Computing Laboratory |
| Mods Preparation Lecture | Dr Dyson | T.12 (<i>wk 5</i>) | University Museum |
| MATHEMATICS AND COMPUTER SCIENCE | | | |
| Moderations | | | |
| Digital Hardware | Dr Calinescu | T.W.Th.F. 11 (<i>wks 1-4</i>) | Computing Laboratory |
| Some Theory of Sets and Groups | Dr Scataglini-Belghitar | M. 11, W. 12 (<i>wks 1-4</i>) | University Museum |
| Analysis III – Integration | Prof Lyons | M.Th. 12 (<i>wks 1-4</i>) | University Museum |
| Geometry II | Dr Earl | T.F. 12 (<i>wks 1-4</i>) | University Museum |
| Mods Preparation Lecture | Dr Dyson | T.12 (<i>wk 5</i>) | University Museum |
| COMPUTER SCIENCE, MATHEMATICS AND COMPUTER SCIENCE | | | |
| Part A | | | |
| Computer Architecture | Prof Melham | M.T.W.Th.2 (<i>wks 1-4</i>) | Computing Laboratory |
| Formal Program Design | Dr Lowe | W. 10-12 (<i>wks 1,2</i>) | Computing Laboratory |
| [Mathematics and Computer Science: in addition, the lectures above for Mathematics Part A are applicable.] | | | |
| Part B | | | |
| Schedule B1 | | | |
| Computer Architecture | Prof Melham | TBA | Computing Laboratory |
| Schedule B2 | | | |
| No lectures | | | |
| Schedule B3 | | | |
| No lectures | | | |
| Schedule B4 | | | |
| No lectures | | | |
| Schedule B4 [Mathematics and Computer Science only] | | | |
| No lectures | | | |

| MATHEMATICS AND PHILOSOPHY | | | |
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| Moderations | | | |
| Mathematics: | | | |
| Some Theory of Sets and Groups | Dr Scataglini-Belghitar | M. 11, W. 12 (<i>wks 1-4</i>) | University Museum |
| Analysis III – Integration | Prof Lyons | M.Th. 12 (<i>wks 1-4</i>) | University Museum |
| Geometry II | Dr Earl | T.F. 12 (<i>wks 1-4</i>) | University Museum |
| Mods Preparation Lecture | Dr Dyson | T.12 (<i>wk 5</i>) | University Museum |
| Philosophy: | | | |
| Frege: Foundations of Arithmetic | Dr Isaacson | T. 930-11 | 10 Merton St, Ryle Room |
| Part A Mathematics: | | | |
| Electromagnetism | Prof Tod | M.W. 9 (<i>wks 1-4</i>) | Mathematical Institute, L2 |
| Multivariable Calculus | Dr Day | T.Th. 10 (<i>wks 1-4</i>) | Mathematical Institute, L2 |
| Number Theory | Prof Heath-Brown | T.Th. 12 (<i>wks 1-4</i>) | Mathematical Institute, L2 |
| Part B Mathematics | | | |
| No lectures | | | |
| Part B Philosophy: | | | |
| N101: History of Philosophy: Berkeley | Dr Kail | M.F.10 (<i>wks 1-4</i>) | Exam Schools (Mondays), 10 Merton St , Lecture Room (Fridays) |
| Philosophy of Mathematics Revision Class | Dr Isaacson | M. 11-1230 (<i>wks 1-4</i>) | 10 Merton St, Lecture Room |
| [For non-compulsory 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 | | | |
| Moderations | | | |
| A: Some Theory of Sets and Groups | Dr Scataglini-Belghitar | M. 11, W. 12 (<i>wks 1-4</i>) | University Museum |
| B: Analysis III – Integration | Prof Lyons | M.Th. 12 (<i>wks 1-4</i>) | University Museum |
| B: Geometry II | Dr Earl | T.F. 12 (<i>wks 1-4</i>) | University Museum |

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| D: Calculus in Three Dimensions and Applications | Dr Kirchheim | T.W.Th.F. 11 (<i>wks 1-4</i>) | University Museum |
| Mods Preparation Lecture | Dr Dyson | T.12 (<i>wk 5</i>) | University Museum |
| Part A | | | |
| Core | | | |
| No lectures | | | |
| Options | | | |
| Linear Programming | Mr Yu | M.10, Th.11 (<i>wks 1-3</i>) Th.11, F.10 (<i>wk 4</i>) | Mathematical Institute, L2 |
| [In addition, the lectures from Mathematics Part A may be taken] | | | |
| Part B | | | |
| No lectures | | | |
| Part C | | | |
| No lectures | | | |

FOOTNOTE REFERENCES

- * Lectures begin on the first day possible after the beginning of Full Term (Sunday, 22 April), unless otherwise stated in this column.