

Lectures Proposed by the Board of the Faculty of Mathematics

MATHEMATICAL TRIPOS

Lectures proposed by the Board of the Faculty of Mathematics. Graduates of the University who are not reading for any University Examination may attend without payment any lectures proposed by the Faculty Board of Mathematics.

First year mathematics students are recommended to attend the induction session which will be held from 9.30 a.m. to 10.45 a.m. on Wednesday 4 October 2006, in the *Cockcroft Lecture Theatre*.

A meeting will be held for all Part IA students on Friday 4 May 2007 at 2.00 p.m. in *Mill Lane Room 3* to discuss examinations and examination techniques.

Note that the non-examinable course on **Topics in the History of Mathematics** will be of interest to all students reading the Mathematical Tripos. This course will be given in the Michaelmas Term (**Ancients to the Renaissance**) and in the Lent Term (**Renaissance to the 19th century**). Full details are given below.

MICHAELMAS 2006

LENT 2007

EASTER 2007

PART IA

Lectures for Part IA of the Mathematical Tripos will be held in the *Cockcroft Lecture Theatre* unless otherwise stated.

Differential Equations
 PROF. M. G. WORSTER Tu. Th. S. 10

Algebra and Geometry
 DR S. J. COWLEY AND PROF. T. W. KÖRNER M. Tu. W. Th. F.
 S. 11

Numbers and Sets
 DR I. B. LEADER M. W. F. 10

Non-Examinable Courses
 Introduction to Physics**
 PROF. P. WADHAMS Tu. Th. 9, *Mill Lane Room 2* (Twelve lectures)

Topics in the History of Mathematics: Ancients to the Renaissance
 DR P. BURSILL-HALL W. F. 4, *Centre for Mathematical Sciences, Room 9*

Dynamics
 DR R. E. HUNT M. W. F. 10

Analysis I
 PROF. A. G. THOMASON M. W. F. 11

Vector Calculus
 PROF. E. J. HINCH Tu. Th. S. 11

Probability
 DR D. P. KENNEDY Tu. Th. S. 10

Topics in the History of Mathematics: Renaissance to the 19th Century
 DR P. BURSILL-HALL W. F. 4, *Centre for Mathematical Sciences, Room 9*

Numerical Analysis*
 PROF. A. ISERLES M. W. F. 12, *Mill Lane Room 3* (Twelve lectures)

Optimization*
 DR M. R. TEHRANCHI M. W. F. 11, *Mill Lane Room 3* (Twelve lectures)

Metric and Topological Spaces*
 DR I. SMITH M. W. F. 10, *Mill Lane Room 3* (Twelve lectures)

Special Relativity*
 PROF. M. B. GREEN Tu. Th. 10, *Mill Lane Room 3* (Eight lectures)

Computational Projects*
 DR N. NIKIFORAKIS AND OTHERS Tu. Th. 11, *Mill Lane Room 3* (Six lectures)

Mathematics with Computer Science Option:

Students taking this option should attend Algebra and Geometry, Numbers and Sets, Differential Equations, Analysis I, Vector Calculus and Probability from Part IA of the Mathematical Tripos, together with the courses from the Computer Science Tripos listed below. Students should note that the programming exercises will be taken into account by the Examiners.

Registration.
 DR F. H. KING AND MISS C. H. NORTHEAST Th. 12 (One lecture) *Arts School, Room A, Bene't Street*

Introduction to Computer Science.
 PROF. A. HOPPER F. 12 (One lecture) *Arts School, Room A, Bene't Street*

Foundations of Computer Science.
 PROF. L. C. PAULSON M. W. F. 12 (Fifteen lectures, beginning 9 Oct.) *Arts School, Room A, Bene't Street*

Operating Systems continued.
 DR M. RICHARDS M. W. F. 12 (Eight lectures) *Arts School, Room A, Bene't Street*

Programming in Java.
 DR A. C. NORMAN M. W. F. 12 (Sixteen lectures, beginning 7 Feb.) *Arts School, Room A, Bene't Street*

Algorithms I.
 DR K. A. FRASER M. W. F. 12 *Arts School, Room A, Bene't Street* (non-examinable course)

* Examined in Part IB of the Tripos.

** This course assumes no prior knowledge of A-level Physics.

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART IA (continued)

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Operating Systems.

DR M. RICHARDS M. W. F. 12 (Eight lectures, beginning 13 Nov.) *Arts School, Room A, Bene't Street*

Practical ML under Windows.

DR F. H. KING, MISS C. H. NORTHEAST AND MR R. J. STIBBS Th. 2-5 (Two classes) *Lecture Theatre 1, William Gates Building*

Programming Practical Class.

PROF. L. C. PAULSON AND DR F. H. KING Th. 2-4 (Three fortnightly classes, beginning 19 Oct. or 26 Oct.) *Cockcroft Building, Floor 4*

Assessed Exercise Work.

M. or W. or F. 2-4 *Cockcroft Building, Floor 4*

How to Study Computer Science.

DR N. A. DODGSON AND OTHERS Th. 5 (One lecture, 19 Oct.) *Arts School, Room A, Bene't Street*

Tick-Four Briefing.

DR F. H. KING Th. 5 (One lecture, 26 Oct.) *Hopkinson Lecture Room*

Help Sessions.

DR R. G. ROSS Th. 5 (Four classes, beginning 2 Nov.) *Hopkinson Lecture Room*

Programming Practical Class.

DR F. H. KING AND DR A. C. NORMAN Th. 2-4 (Four fortnightly classes, beginning 18 Jan. or 25 Jan.) *Cockcroft Building, Floor 4*

Assessed Exercise Work.

M. or W. or F. 2-4 *Cockcroft Building, Floor 4*

How to Install Linux.

DR R. J. DOWLING Th. 5 (One lecture, 8 Feb.) *Cockcroft Lecture Theatre*

Revision Skills.

STAFF Th. 5 (One lecture, 8 Mar.) *Arts School, Room A, Bene't Street*

Programming Practical Class.

DR F. H. KING AND DR A. C. NORMAN Th. 1-4 (Two fortnightly classes, beginning 26 Apr. or 3 May) *Cockcroft Building, Floor 4*

Assessed Exercise Work.

M. or W. or F. 2-4 *Cockcroft Building, Floor 4*

Part IB Assessed Exercise Briefing.

DR A. C. NORMAN AND DR J. K. FAWCETT Th. 4.30 (One lecture, 17 May) *Arts School, Room A, Bene't Street*

Mathematics with Physics Option:

Students taking this third option should attend Algebra and Geometry, Differential Equations, Analysis I, Vector Calculus and Probability from Part IA of the Mathematical Tripos, together with the lectures listed below in Part IA of the Natural Sciences Tripos (Course B version). They will be required to do Physics practical work, and are recommended to attend at least the first lecture of Course B of the Computing Course for Physical Scientists.

Principles of Relativity, Mechanics and Fields

DR P. J. DUFFETT-SMITH M. W. F. 9 (first nineteen lectures) *Chemical Laboratory, Lensfield Road*

Electromagnetism, Oscillations and Waves

DR J. M. RILEY M. W. F. 9 (last three lectures, beginning 24 Nov.) *Chemical Laboratory, Lensfield Road*

Experimental Physics

DR D. A. GREEN Two lectures, W. 18 Oct. and W. 1 Nov. *Chemical Laboratory, Lensfield Road*

Electromagnetism, Oscillations and Waves

DR J. M. RILEY M. W. F. 9 (first sixteen lectures) *Chemical Laboratory, Lensfield Road*

Quantum Mechanics and the Physics of Large Systems

PROF. C. G. SMITH M. W. F. 9 (last eight lectures, beginning 26 Feb.) *Chemical Laboratory, Lensfield Road*

Quantum Mechanics and the Physics of Large Systems

PROF. C. G. SMITH M. W. F. 9 (first ten lectures) *Chemical Laboratory, Lensfield Road*

Revision Lectures

DR P. J. DUFFETT-SMITH AND DR J. M. RILEY Two lectures, M. 21 May and W. 23 May *Chemical Laboratory, Lensfield Road*

MATHEMATICAL TRIPOS, PART IB

Lectures for Part IB of the Mathematical Tripos will be held in *Mill Lane Lecture Rooms, Room 3* unless otherwise stated.

Methods

DR C. P. CAULFIELD M. W. F. 11

Linear Algebra

PROF. J. SAXL M. W. F. 12

Analysis II

DR M. J. WALTERS M. W. F. 10

Quantum Mechanics

DR R. M. WILLIAMS Tu. Th. 10

Markov Chains

PROF. F. P. KELLY Tu. Th. 11 (Twelve lectures)

Fluid Dynamics

PROF. H. E. HUPPERT Tu. Th. 12

Special Relativity

DR R. M. WILLIAMS M. W. F. 11 (last eight lectures, beginning 26 Feb.)

Fluid Dynamics

DR N. BERLOFF W. F. 12

Complex Analysis

PROF. A. J. SCHOLL Tu. Th. 9

Quantum Mechanics

DR A. KENT M. W. F. 11 (first sixteen lectures ending 24 Feb.)

Groups, Rings and Modules

DR C. J. B. BROOKES M. W. F. 9

Statistics

PROF. R. R. WEBER Tu. Th. 10

Geometry

PROF. P. M. H. WILSON Tu. Th. 11

Electromagnetism

PROF. N. G. TUROK M. W. F. 10 (first sixteen lectures, ending 23 Feb.)

Complex Methods

PROF. F. QUEVEDO Tu. Th. 12

Numerical Analysis

PROF. A. ISERLES M. W. F. 12 (Twelve lectures)

Optimization

DR M. R. TEHRANCI M. W. F. 11 (Twelve lectures)

Metric and Topological Spaces

DR I. SMITH M. W. F. 10 (Twelve lectures)

Special Relativity

PROF. M. B. GREEN Tu. Th. 10 (Eight lectures)

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART IB (continued)

MICHAELMAS 2006

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Non-Examinable Courses

Topics in the History of Mathematics: Ancients to the Renaissance
 DR P. BURSILL-HALL W. F. 4, *Centre for Mathematical Sciences, Room 9*

Topics in the History of Mathematics: Renaissance to the 19th Century
 DR P. BURSILL-HALL W. F. 4, *Centre for Mathematical Sciences, Room 9*

MATHEMATICAL TRIPOS PART II

Lectures will be held in the Meeting Rooms (MR) of the *Centre for Mathematical Sciences, Clarkson Road*, unless otherwise stated.

A meeting will be held on Wednesday, 13 June 2007 for finalists who may continue to Part III of the Tripos in 2007–08. The meeting will be held in *MR2 at the Centre for Mathematical Sciences* at 11.15 a.m.

C COURSES

Geometry and Groups
 DR T. K. CARNE M. W. F. 9, *MR 3*
 Coding and Cryptography
 DR T. A. FISHER Tu. Th. S. 9, *MR 3*
 Mathematical Biology
 PROF. T. J. PEDLEY M. W. F. 12, *MR 2*
 Further Complex Methods
 DR S. T. C. SIKLOS Tu. Th. S. 12, *MR 2*
 Classical Dynamics
 PROF. J. C. B. PAPALOIZOU M. W. F. 11, *MR 3*
 Computational Projects
 DR N. NIKIFORAKIS AND OTHERS M. W. F. 2 (six lectures),
MR 2

Number Theory
 PROF. J. H. COATES M. W. F. 10, *MR 3*
 Topics in Analysis
 PROF. T. W. KÖRNER M. W. F. 9, *MR 3*
 Statistical Modelling
 TBC M. W. F. 11, *MR 3*
 Dynamical Systems
 PROF. J. R. LISTER Tu. Th. S. 10, *MR 3*
 Cosmology
 DR E. P. S. SHELLARD M. W. F. 12, *MR 3*

D COURSES

Linear Analysis
 DR M. DAFERMOS Tu. Th. S. 10, *MR 4*
 Principles of Quantum Mechanics
 DR J. M. EVANS M. W. F. 9, *MR 2*
 Galois Theory
 PROF. I. GROJNOWSKI Tu. Th. S. 12, *MR 5*
 Riemann Surfaces
 DR A. G. KOVALEV Tu. Th. S. 11, *MR 13*
 Algebraic Topology
 PROF. B. J. TOTARO M. W. F. 12, *MR 5*
 Probability and Measure
 DR S. GROSSKINSKY M. W. F. 10, *MR 3*
 Principles of Statistics
 PROF. L. C. G. ROGERS M. W. F. 11, *MR 5*
 Optimization and Control
 PROF. J. R. NORRIS Tu. Th. 11, *MR 3*
 Partial Differential Equations
 DR D. M. A. STUART Tu. Th. S. 9, *MR 4*
 Electrodynamics
 DR J. M. STEWART Tu. Th. 10, *MR 14*
 Fluid Dynamics
 PROF. M. R. E. PROCTOR M. W. F. 10, *MR 5*
 Computational Projects
 DR N. NIKIFORAKIS AND OTHERS M. W. F. 2 (six lectures),
MR 2

Number Fields
 DR M. STRAUCH Tu. Th. 12, *MR 13*
 Graph Theory
 DR O. M. RIORDAN M. W. F. 12, *MR 2*
 Representation Theory
 PROF. J. SAXL Tu. Th. S. 10, *MR 5*
 Asymptotic Methods
 DR P. D. D'EATH Tu. Th. 10, *MR 4*
 Logic and Set Theory
 PROF. P. T. JOHNSTONE M. W. F. 11, *MR 4*
 Differential Geometry
 DR G. P. PATERNAIN Tu. Th. S. 9, *MR 4*
 Applied Probability
 PROF. Y. M. SUHOV Tu. Th. S. 11, *MR 4*
 Stochastic Financial Models
 DR P. K. FRIZ M. W. F. 9, *MR 2*
 Integrable Systems
 PROF. A. FOKAS Tu. Th. 12, *MR 4*
 Applications of Quantum Mechanics
 PROF. N. S. MANTON Tu. Th. S. 9, *MR 2*
 Statistical Physics
 DR M. WINGATE Tu. Th. 11, *MR 3*
 General Relativity
 PROF. H. OSBORN M. W. 10, *MR 2*
 Waves
 DR J. M. RALLISON M. W. F. 11, *MR 2*
 Numerical Analysis
 DR A. SHADRIN M. W. F. 9, *MR 4*

Non-Examinable Courses

Topics in the History of Mathematics: Ancients to the Renaissance
 DR P. BURSILL-HALL W. F. 4, *Centre for Mathematical Sciences, Room 9*

Topics in the History of Mathematics: Renaissance to the 19th Century
 DR P. BURSILL-HALL W. F. 4, *Centre for Mathematical Sciences, Room 9*

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART III

All lectures are held at the *Centre for Mathematical Sciences, Clarkson Road* unless otherwise stated.
There will be a meeting in *MR 2* on Wednesday, 4 October 2006 at 9.30 a.m. for all those who intend to offer courses in Part III.

There is a series of meetings for Part III students in MR 2, Centre for Mathematical Sciences, at 4.15 p.m. on the following topics:

10 October 2006: PhD applications to Cambridge and other universities
18 October 2006: Exams and lectures
25 October 2006: How to write a Part III essay
22 November 2006: Research opportunities in Cambridge
2 May 2007: Exams

MICHAELMAS 2006

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DEPARTMENT OF APPLIED MATHEMATICS AND THEORETICAL PHYSICS

General Relativity

DR J. M. STEWART M. W. F. 10, *MR 2*

Structure and Evolution of Stars

PROF. J. C. B. PAPALOIZOU M. W. F. 12, *MR 3*

Perturbation and Stability Methods

DR J. M. RALLISON AND DR S. J. COWLEY M. W. F. 12, *MR 4*

Symmetry and Particle Physics

DR J. B. GUTOWSKI M. W. F. 11, *MR 9*

Magnetohydrodynamics and Turbulence

DR A. SCHEKOCHIHIN M. W. 11, *MR 12*

Fundamentals of Atmosphere-Ocean Dynamics

PROF. M. E. MCINTYRE M. W. F. 9, *MR 14*

Slow Viscous Flows

DR J. R. LISTER M. W. F. 10, *MR 15*

Quantum Field Theory

DR D. TONG Tu. Th. S. 9, *MR 2*

Cosmology

PROF. N. G. TUROK Tu. Th. S. 10, *MR 2*

Introduction to Quantum Computation

PROF. A. EKERT Tu. Th. 12, *MR 3*

Astrophysical Fluid Dynamics

DR G. I. OGILVIE Tu. Th. S. 11, *MR 9*

Numerical Solution of Differential Equations

PROF. A. ISERLES Tu. Th. S. 12, *MR 9*

Nonlinear Continuum Mechanics

PROF. J. R. WILLIS Tu. Th. S. 10, *MR 11*

Computational Methods in Fluid Mechanics

PROF. E. J. HINCH Tu. Th. 9, *MR 15*

(non-examinable, but essays will be set)

Computer-aided Geometric Design

DR M. A. SABIN Tu. Th. 11, *MR 14*

Physical Cosmology

PROF. M. PETTINI M. W. F. 10, *MR 4*

The Standard Model

DR B. ALLANACH M. W. F. 9, *MR 9*

Black Holes

PROF. M. J. PERRY M. W. F. 10, *MR 9*

String Theory

PROF. M. B. GREEN M. W. F. 11, *MR 9*

Supersymmetry and Extra Dimensions

PROF. F. QUEVEDO M. W. F. 12, *MR 9*

Symmetric Dynamical Systems

DR J. H. P. DAWES M. W. 10, *MR 14*

Stellar and Planetary Magnetic Fields

PROF. M. R. E. PROCTOR M. W. F. 9, *MR 15*

Control of Quantum Systems

DR S. SCHIRMER M. W. 2, *MR 15*

Computational Neuroscience

DR S. EGLER Th. 2-4, *MR 12*

Advanced Quantum Field Theory

PROF. H. OSBORN Tu. Th. S. 11, *MR 2*

Quantum Information, Entanglement and

Nonlocality

DR A. P. A. KENT Tu. Th. 12, *MR 3*

Advanced Cosmology

DR E. P. S. SHELLARD Tu. Th. 9, *MR 9*

Imaging, boundary value problems and

integrability

PROF. A. FOKAS Tu. Th. S. 10, *MR 14*

Astrophysical Dynamics

DR N. W. EVANS Tu. Th. S. 11, *MR 14*

Quantum Fluids

DR N. BERLOFF Tu. Th. 11, *MR 15*

The Fluid Dynamics of Swimming Organisms

PROF. T. J. PEDLEY Tu. Th. 12, *MR 15*

Accretion Discs

PROF. J. E. PRINGLE Tu. Th. 10, *MR 13*

Classical Wave Scattering

DR O. RATH-SPIVACK M. W. 11, *MR 14*

The Polar Ocean and Climate Change

PROF. P. WADHAMS Tu. Th. S. 10, *MR 15*

(Sixteen lectures, 3 per week, 1st half of Term)

Environmental Fluid Mechanics

DR S. DALZIEL M. W. 12, *MR 15*

Demonstrations in Fluid Dynamics

DR S. DALZIEL Th. 2, *GK Batchelor**Laboratory, CMS* (non-examinable)

Supergravity

PROF. A. C. DAVIS M. Tu. Th. F. 10, *MR 9*

Solitons and Instantons

DR M. DUNAJSKI M. Tu. Th. F. 11, *MR 9*

Systems Biology

PROF. S. TAVARÉ AND DR J. PAULSON

TBA

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART III (continued)

MICHAELMAS 2006

LENT 2007

EASTER 2007

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS

A number of courses given by the Statistical Laboratory are available both to candidates for Part III and for the M.Phil. in Statistical Science.

Introduction to Functional Analysis
 PROF. T. W. KÖRNER Tu. Th. S. 9, *MR 5*
 Toric Geometry
 PROF. P. M. H. WILSON M. W. F. 10, *MR 14*
 Differential Geometry
 DR G. P. PATERNAIN Tu. Th. S. 9, *MR 9*
 Noetherian Algebras
 DR S. J. WADSLEY Tu. Th. S. 12, *MR 13*
 Ramsey Theory
 PROF. I. B. LEADER Tu. Th. 12, *MR 4*
 Combinatorics
 PROF. A. G. THOMASON Tu. Th. 11, *MR 4*
 Algebraic Topology
 PROF. B. J. TOTARO M. W. F. 11, *MR 13*
 Category Theory
 PROF. P. T. JOHNSTONE M. W. F. 9, *MR 5*
 Finite Dimensional Lie Algebras and their Representations
 PROF. I. GROJNOWSKI M. W. F. 12, *MR 13*
 Analysis of Operators
 DR A. J. WASSERMAN M. W. F. 10, *MR 13*
 Topics in Group Theory
 DR R. I. LAWTHER Tu. Th. S. 10, *MR 3*
 Local Fields
 DR T. DOKCHITSER Tu. Th. 10, *MR 5*

Courses given by the Statistical Laboratory

Advanced Financial Models
 DR D. P. KENNEDY M. W. F. 9, *MR 9*
 Stochastic Networks
 PROF. F. P. KELLY M. W. F. 10, *MR 4*
 Statistical Theory
 DR R. J. SAMWORTH Tu. Th. 10, *MR 12*
 Rough Path Theory and Applications
 DR P. K. FRIZ Tu. Th. 11, *MR 12*
 Advanced Probability
 DR G. MIERMONT M. W. F. 11, *MR 4*
 Information and Coding
 PROF. Y. M. SUHOV Tu. Th. 9, *MR 13*
 Mathematics of Operational Research
 PROF. R. R. WEBER M. W. F. 12, *MR 9*

Applied Statistics

DR S. M. PITTS Tu. Th. 12, *MR 12* (Eight lectures and eight classes)
 Applied Multivariate Analysis
 PROF. S. P. BROOKS M. W. 11, *MR 14*

Combinatorial Probability
 PROF. B. BOLLOBAS Tu. Th. 11, *MR 9*
 Geometry of Surfaces
 DR I. SMITH M. W. F. 11, *MR 13*
 3-manifolds
 DR V. EAISON Tu. Th. 11, *MR 11*
 Spectral Geometry
 DR D. BARDEN M. W. F. 10, *MR 13*
 Algebraic Curves
 PROF. N. I. SHEPHERD-BARRON Tu. Th. S. 10, *MR 11*
 Set Theory and Logic
 DR T. E. FORSTER Tu. Th. S. 9, *MR 13*
 Complex Manifolds
 DR A. G. KOVALEV M. W. F. 9, *MR 5*
 Modular Representation Theory of Finite Groups
 DR S. MARTIN M. W. F. 9, *MR 11*
 Elliptic Curves
 DR T. A. FISHER Tu. Th. S. 12, *MR 5*
 Additive Number Theory
 PROF. B. J. GREEN M. W. F. 11, *MR 5*
 Isoperimetry and Concentration of Measure
 DR D. J. H. GARLING Tu. Th. 12, *MR 11* and *F. 10, MR 12*
 Modular Forms
 DR T. BERGER Tu. Th. S. 9, *MR 12*
 Pro-p Groups
 DR R. CAMINA M. W. F. 10, *MR 11*
 Cobordism
 DR K. FELDMAN M. W. F. 12, *MR 5*
 Birational Geometry
 DR C. BIRKAR M. W. F. 11, *MR 11*
 Riemann Surfaces and Discrete Groups
 DR T. K. CARNE M. W. F. 12, *MR 13*
 Reading Course on Quantum Groups
 DR M. BATCHELOR TBA

Courses given by the Statistical Laboratory

Time Series+
 DR S. PITTS M. W. F. 9, *MR 12* (Eight lectures)
 Monte Carlo Inference+
 DR R. B. GRAMACY AND DR R. J. SAMWORTH
 M. W. F. 9, *MR 12* (Sixteen lectures starting 7 Feb.)
 Optimal Investment
 DR M. TEHRANCHI Tu. Th. 12, *MR 9*
 Stochastic Calculus and Applications
 PROF. J. R. NORRIS AND DR S. GROSSKINSKY
 M. W. F. 10, *MR 5*
 Survival Data++
 DR F. P. TREASURE Tu. Th. 12, *MR 12* (Ten lectures and two classes, starting 23 Jan.)
 Interacting Particle Systems
 PROF. G. R. GRIMMETT M. W. F. 9, *MR 13*
 Actuarial Statistics
 DR S. M. PITTS Tu. Th. 11, *MR 12*
 Quantum Information Theory
 DR N. DATTA M. W. F. 11, *MR 12*
 The Spread of Epidemics and Rumours
 DR M. DRAIEF AND DR L. MASSOULIE Tu. Th. 9, *MR 5*
 Statistics in Medical Practice++
 DR S. BIRD, DR V. FAREWELL AND DR D. SPIEGELHALTER W. 4–6 p.m., *MR 13* (Six hours)
 Nonparametric Statistical Theory
 DR R. J. SAMWORTH M. W. 12, *MR 12*
 Stochastic Loewner Evolutions
 PROF. J. R. NORRIS M. W. 12, *MR 14*

Applied Statistics

DR B. D. M. TOM Tu. Th. 10, *MR 12* (Four lectures and four classes)

+These two courses constitute the twenty-four hour course in Time Series and Monte Carlo Inference

++These two courses constitute the sixteen hour course in Biostatistics

Faculty of Mathematics (continued)**MATHEMATICAL TRIPOS, PART III (continued)**

MICHAELMAS 2006

LENT 2007

EASTER 2007

COURSES INTENDED FOR GRADUATES (non-examinable)

Quine's Set Theory

DR T. E. FORSTER Th. 4-6, *MR 9* (Four lectures, starting 9 Nov.)

Root Numbers

PROF. J. H. COATES M. W. F. 10, *MR 12*

Philosophy of Classical and Quantum Mechanics

PROF. J. BUTTERFIELD M. 4.30-6, *MR 14*

L-functions and Motives

PROF. A. J. SCHOLL Tu. Th. S. 11, *MR 11*

Geometric Function Theory

PROF. A. F. BEARDON Tu. Th. 10, *MR 13*

Philosophy of Classical and Quantum Mechanics

PROF. J. BUTTERFIELD M. 4.30-6, *MR 14*

Quine's Set Theory

DR T. E. FORSTER Th. 4-6, *MR 9* (Four lectures)

Philosophy of Classical and Quantum Mechanics

PROF. J. BUTTERFIELD M. 4.30-6, *MR 14*

Brain Imaging in Realistic Ellipsoidal Geometry

PROF. G. DASSIOS W. F. 2, *MR 11*

Philosophy of Classical and Quantum Mechanics

PROF. J. BUTTERFIELD M. 4.30-6, *MR 14*

Topics in Stochastic Analysis

DR P. K. FRIZ M. W. F. 11, *MR 12* (Eight lectures)

Faculty of Mathematics (continued)**M. PHIL. IN STATISTICAL SCIENCE**Lectures are held in the *Centre for Mathematical Sciences*, unless otherwise stated

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Introduction to Probability
DR M. TEHRANCHI Tu. Th. 9, *MR 12*
Statistical Theory*
DR R. J. SAMWORTH Tu. Th. 10, *MR 12*
Mathematics of Operational Research*
PROF. R. R. WEBER M. W. F. 12, *MR 9*

Applied Statistics*
DR S. M. PITTS Tu. Th. 12, *MR 12* (Eight lectures and eight classes)
Tu. Th. 10, *MR 12* (Four lectures and four classes)
Advanced Financial Models
DR D. P. KENNEDY M. W. F. 9, *MR 9*
Stochastic Networks
PROF. F. P. KELLY M. W. F. 10, *MR 4*
Applied Multivariate Analysis
PROF. S. P. BROOKS M. W. 11, *MR 14*

Time Series+
DR S. PITTS M. W. F. 9, *MR 12* (Eight lectures)
Monte Carlo Inference+
DR R. B. GRAMACY AND DR R. J. SAMWORTH
M. W. F. 9, *MR 12* (Sixteen lectures, starting 7 Feb.)
Survival Data++
DR F. P. TREASURE Tu. Th. 10, *MR 12* (Ten lectures and two classes, starting 23 Jan.)
Actuarial Statistics
DR S. M. PITTS Tu. Th. 11, *MR 12*
Statistics in Medical Practice++
DR S. BIRD, DR V. FAREWELL AND DR D. SPIEGELHALTER W. 4–6 p.m., *MR 13* (Six hours)
Nonparametric Statistical Theory
DR R. J. SAMWORTH M. W. 12, *MR 12*

Applied Statistics (continued)
DR B. D. M. TOM

Candidates will be expected to have attended the basic courses (marked *) and an appropriate number of courses (and all will receive advice individually about this). Subject to the approval of the M.Phil. examiners, they may also offer for examination any Part III courses given by the Statistical Laboratory.

+These two courses constitute the twenty-four hour course in Time Series and Monte Carlo Inference

++These two courses constitute the sixteen hour course in Biostatistics

M. PHIL. IN COMPUTATIONAL BIOLOGYLectures are held in the *Centre for Mathematical Sciences*, unless otherwise stated.

Disease Dynamics
DR J. GOG AND OTHERS Th. 10–12, Nov. 2, 9, 23, 30
MR 15
Genome Informatics
DR L. SMINK Tu. 9–11, *Computer Laboratory, CMS*
Functional Genomics
DR S. EGMEN W. 11–1, *MR 15*

Seminar Series
W. 2–4, *MR 5*

Disease Dynamics
DR J. GOG AND OTHERS Th. 10–11, *MR 12*
(Eight hours)
Statistical Methods in Bioinformatics
PROF. S. TAVARÉ AND OTHERS M. W. 10–11,
MR 15
Computational Neuroscience
DR S. EGMEN Th. 2–4, *MR 12*
Monte Carlo Inference
DR R. B. GRAMACY AND DR R. J. SAMWORTH
M. W. F. 9, *MR 12* (Sixteen lectures, starting 7 Feb.)
Seminar Series
W. 2–4, *MR 5*

Systems Biology
DR J. PAULSSON AND PROF. S. TAVARÉ M. Tu.
W. Th. 4–6, *MR 5* (Sixteen hours)
Methods and Models in Genomics
DR P. LIO W. F. 11–1, *MR 5*

OTHER MEETINGS

A meeting will be held on 5 October 2006 at 2 p.m. in *MR 4* for new supervisors (primarily those new to Cambridge).
A seminar will be held on 10 October 2006 at 2 p.m. in *MR 4* for all supervisors.