

Lectures Proposed by the Board of the Faculty of Mathematics

For particulars of the University Composition Fee and the fees payable for attendance at separate courses of lectures see p. 2. 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.

MATHEMATICAL TRIPOS

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

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 3 October 2001, in the *Cockcroft Lecture Theatre*.

A meeting will be held for all Part IA students on Friday 3 May 2002 at 2 p.m. in *Mill Lane Room 3* to discuss examinations and examination techniques

MICHAELMAS 2001

LENT 2002

EASTER 2002

PART IA

Algebra and Geometry

DR A. F. BEARDON AND PROF. P. H. HAYNES M. Tu. W. Th.
F. S. 11

Differential Equations

PROF. D. O. GOUGH Tu. Th. S. 10

Numbers and Sets

DR I. B. LEADER M. W. F. 10

Analysis I

DR T. W. KORNER Tu. Th. S. 10

Probability

PROF. G. R. GRIMMETT M. W. F. 11

Vector Calculus

DR S. T. C. SIKLOS Tu. Th. S. 11

Dynamics

DR J. M. STEWART M. W. F. 10

Linear Mathematics*

PROF. A. M. W. GLASS M. W. F. 12 *Mill Lane Room 3*

Complex Methods*

DR C. TELEMAN M. Tu. Th. S. 10 (Sixteen lectures)

Special Relativity*

DR A. C. DAVIS W. F. 10 (Eight lectures)

Geometry*

DR T. K. CARNE M. W. F. 11 (Twelve lectures)

Optimization*

DR Y. SUHOV Tu. Th. S. 9 (Twelve lectures)
Mill Lane Room 3

Numerical Analysis*

DR A. SHADRIN M. W. F. 12 (Twelve lectures)
Mill Lane Room 9

Computational Projects**

DR N. NIKIFORAKIS Tu. Th. 11 (Six lectures)

Non-Examinable Courses

Introduction to Physics***

PROF. G. W. GIBBONS M. 9 (Twelve lectures) *Arts School Room B* and *W. 9 Arts School Room C*

Topics in the History of Mathematics

DR P. BURSILL-HALL M. W. F. 4 *Mill Lane Room 9*

Mathematics with Computer Science Option:

Students taking this option should attend Algebra and Geometry, Analysis I Vector Calculus, Differential Equations 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.

Introduction to Computer Science

PROF. I. M. LESLIE Th. 12 (One lecture)

Foundations of Computer Science

DR L. C. PAULSON Tu. Th. S. 12 (Fifteen lectures, beginning 6 Oct.)

Discrete Mathematics

DR P. ROBINSON Tu. Th. S. 12 (Eight lectures, beginning 10 Nov.)

Practical ML under Windows

DR F. H. KING, MISS C. H. NORTHEAST AND MR R. J. STIBBS Th. 2-4 or 4-6 (Two Thursday classes) *Hopkinson Lecture Room*

Programming Practical Class

DR L. C. PAULSON AND DR F. H. KING Th. 2-4 (Three fortnightly classes, beginning 18 Oct., or 25 Oct.) *Cockcroft Building, Floor 4*

How to Study Computer Science

DR A. C. NORMAN AND OTHERS Th. 5 (One lecture, 18 Oct.) *Arts School, Room A*

Tick-Four Briefing

DR F. H. KING Th. 5 (One lecture, 25 Oct.) *Hopkinson Lecture Room*

Help Sessions

DR A. N. OTHER Th. 4 (Four classes, beginning 1 Nov.) *Hopkinson Lecture Room*

Operating Systems

MR T. L. HARRIS Tu. Th. S. 12

The same continued.

PROF. G. WINSKEL Tu. Th. S. 12 (Eight lectures)

Programming in Java

DR A. C. NORMAN Tu. Th. S. 12 (Sixteen lectures, beginning 5 Feb.)

Programming Practical Class

DR F. H. KING Th. 2-4 (One class, 17 Jan. or 24 Jan.) *Cockcroft Building, Floor 4*

UNIX Registration

DR F. H. KING, MISS C. H. NORTHEAST AND MR R. J. STIBBS Th. or F. 1.30-4 (One class, 31 Jan. or 1 Feb. or 7 Feb.) *Hopkinson Lecture Room*

Programming Practical Class

DR F. H. KING AND DR A. C. NORMAN Th. 2-4 (Two fortnightly classes, beginning 14 Feb. or 21 Feb.) *Cockcroft Building, Floor 4*

Programming Practical Class

DR F. H. KING AND DR A. C. NORMAN Th. 1-4 (Two fortnightly classes, beginning 25 Apr. or 2 May) *Cockcroft Building Floor 4*

* Not examined in Part IA of the Tripos.

** Not examined in Part IA of the Tripos. CATAM (Computer-Aided Teaching of All Mathematics) practical sessions will be held during the last two weeks of full Easter Term. Examination credit in Part IB for this course will be gained by the submission of project files, and no question will be set on it in the examination. The maximum credit available will be approximately equivalent to that for a normal course of 16 lectures, and will be added directly to the credit obtained in the written papers.

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

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART IA (continued) AND PART IB

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Mathematics with Physics Option:

Students taking this third option should attend Algebra and Geometry, Analysis I, Vector Calculus, Differential Equations 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.

Foundations of Classical and Statistical Physics
DR J. R. WALDRAM M. W. F. 9 *Chemical Laboratory, Lensfield Road*

Oscillations and Waves
DR J. R. BATLEY M. W. F. 9 (First Twelve lectures) *Chemical Laboratory, Lensfield Road*
Fields, Relativity and Quantum Physics
DR J. R. CARTER M. W. F. 9 (Last Twelve lectures) *Chemical Laboratory, Lensfield Road*

The same continued.

MATHEMATICAL TRIPOS PART IB

Lectures for Part IB of the Mathematical Tripos will be held in *Mill Lane Lecture Rooms* unless otherwise stated. Note that some lectures start at 10.15 a.m., 11.15 a.m. or 12.15 p.m.

Analysis II
DR G. P. PATERNAIN Tu. Th. S. 11 *Room 3*
Methods
DR E. P. S. SHELLARD M. W. F. 9 *Room 3*
Quadratic Mathematics
DR C. B. THOMAS Tu. Th. 9 *Room 3*
Fluid Dynamics
PROF. H. E. HUPPERT Tu. Th. 12 *Room 9*
Quantum Mechanics
PROF. P. K. TOWNSENDS Tu. Th. 10 *Room 9*
Linear Mathematics
DR J. M. E. HYLAND M. W. F. 10 *Room 9*
Electromagnetism*
PROF. N. O. WEISS M. W. F. 11.15 *CMS Meeting Room 2*
Markov Chains*
DR J. R. NORRIS M. W. F. 12.15 *CMS Meeting Room 2*

Statistics
DR S. M. PITTS W. S. 9 *Room 3*
Quantum Mechanics
PROF. M. B. GREEN Tu. Th. S. 10 (First sixteen lectures, ending 23 Feb.) *Room 9*
Special Relativity
PROF. G. W. GIBBONS Tu. Th. S. 10 (Last eight lectures, beginning 26 Feb.) *Room 9*
Fluid Dynamics
PROF. M. E. MCINTYRE Th. S. 11 *Room 6*
Complex Methods
DR P. D. D'EATH M. F. 9 *Room 3*
Quadratic Mathematics
DR A. G. KOVALEV Tu. S. 12 *Room 9*
Further Analysis
DR T. K. CARNE Tu. Th. 9 *Room 3*
Groups, Rings and Fields*
PROF. N. I. SHEPHERD-BARRON M. W. F. 10.15 *Room 9*
Dynamics of Differential Equations*
PROF. M. R. E. PROCTOR M. W. F. 12.15 *Room 9*
Principles of Dynamics*
PROF. N. TUROK M. W. F. 11.15 *Room 9*
Functional Analysis
DR A. J. WASSERMANN Tu. 11 Th. 12 *Room 9*

Numerical Analysis
DR A. SHADRIN M. W. F. 12 (Twelve lectures) *Cockcroft Lecture Theatre*
Geometry
DR T. K. CARNE M. W. F. 11 (Eight lectures) *Cockcroft Lecture Theatre*
Special Relativity
DR A. C. DAVIS W. F. 10 (Eight lectures) *Cockcroft Lecture Theatre*
Complex Methods
DR C. TELEMANN M. Tu. Th. S. 10 (Sixteen lectures) *Cockcroft Lecture Theatre*
Optimization
DR Y. SUHOV Tu. Th. S. 9 (Twelve lectures) *Room 3*

* Examined in the 2002 Part II (B) examination.

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART II

Candidates for Part II may offer either Alternative A or Alternative B.

All lectures will be held in the *Centre for Mathematical Sciences meeting rooms (MR), Clarkson Road* unless otherwise stated.

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ALTERNATIVE A

Graph Theory
DR A. G. THOMASON M. W. 11 *MR 3*

Electromagnetism
PROF. N. O. WEISS M. W. F. 11.15 *MR 2*

Mathematical Methods
DR J. A. HUDSON Tu. F. 10 *MR 2*

Functional Analysis
DR D. J. H. GARLING Tu. Th. S. 11 *MR 2*

Algorithms and Networks
DR M. J. LUCZAK M. Th. 10 *MR 2*

Statistical Physics and Cosmology
PROF. P. K. TOWNSEND W. S. 10 *MR 4*

Logic, Computation and Set Theory
DR P. T. JOHNSTONE M. W. F. 9 (First Sixteen lectures)
MR 2

Foundations of Quantum Mechanics
DR A. C. DAVIS Tu. Th. 9 *MR 2*

Principles of Statistics
DR G. A. YOUNG Tu. Th. S. 12 *MR 2*

Markov Chains
DR J. R. NORRIS M. W. F. 12.15 *MR 2*

Computational Projects
DR N. NIKIFORAKIS M. W. F. 2 (Six lectures beginning
8 Oct.) *Mill Lane Room 9*

Computational Statistics and Statistical
Modelling
DR P. M. E. ALTHAM Tu. Th. 12 *MR 2*

Number Theory
PROF. J. H. COATES M. W. 9 *MR 3*

Geometry of Surfaces
DR A. CORTI Tu. Th. 10 *MR 4*

Quantum Physics
PROF. I. T. DRUMMOND M. W. 10 *MR 4*

Transport Processes
PROF. T. J. PEDLEY Tu. Th. 12 *MR 3*

Numerical Analysis
PROF. A. ISERLES M. W. F. 9 *MR 2*

Stochastic Financial Models
DR D. P. KENNEDY Tu. Th. 11 *MR 2*

General Relativity
DR P. D. D'EATH Tu. Th. 9 *MR 2*

Theoretical Geophysics
DR I. LISTER Tu. Th. 10 *MR 3*

Principles of Dynamics
PROF. N. TUROK M. W. F. 11.15 *Mill Lane
Room 9*

Groups, Rings and Fields
PROF. N. I. SHEPHERD-BARRON M. W. F. 10.15
Mill Lane Room 9

Dynamics of Differential Equations
PROF. M. R. E. PROCTOR M. W. F. 12.15 *Mill
Lane Room 9*

Nonlinear Waves
PROF. N. MANTON M. Tu. Th. F. 9 (Twelve
lectures) *MR 4*

Coding and Cryptography
DR I. GROJNOWSKI M. Tu. Th. F. 10 (Twelve
lectures) *MR 4*

ALTERNATIVE B

Hilbert Spaces
DR G. R. ALLAN Tu. F. 10 *MR 3*

Probability and Measure
DR A. M. STACEY Tu. Th. S. 11 *MR 4*

Number Fields
PROF. A. BAKER W. F. 12 *MR 4*

Electrodynamics
DR M. J. PERRY Tu. F. 10 *MR 4*

Fluid Dynamics II
PROF. H. K. MOFFATT M. W. F. 9 *MR 3*

Methods of Mathematical Physics
DR S. T. C. SIKLOS M. W. F. 11 *MR 4*

Partial Differential Equations
DR S. DEMOULINI M. Tu. Th. 12 *MR 3*

Information Theory
DR Y. SUHOV W. F. 12 *MR 3*

Algebraic Topology
PROF. B. J. TOTARO M. Th. 10 *MR 3*

Galois Theory
DR P. M. H. WILSON W. S. 10 *MR 3*

Logic, Computation and Set Theory
DR P. T. JOHNSTONE M. W. F. 9 *MR 2*

Foundations of Quantum Mechanics
DR A. C. DAVIS Tu. Th. 9 *MR 2*

Principles of Statistics
DR G. A. YOUNG Tu. Th. S. 12 *MR 2*

Computational Projects
DR N. NIKIFORAKIS M. W. F. 2 (Six lectures beginning
8 Oct.) *Mill Lane Room 9*

Differentiable Manifolds
DR D. BARDEN W. S. 11 *MR 2, MR 3*

Representation Theory
DR J. SAXL M. W. F. 12 *MR 2*

Waves in Fluid and Solid Media
PROF. E. J. HINCH M. W. F. 12 *MR 3*

Statistical Physics
DR R. R. HORGAN Tu. Th. 10 *MR 2*

Applications of Quantum Mechanics
DR H. OSBORN M. W. F. 10 *MR 2*

Applications
DR J. NEKOVAR Tu. Th. 10 *MR 5*

Applied Probability
DR M. J. LUCZAK Tu. Th. 9 *MR 4*

Dynamical Systems
PROF. SIR PETER SWINNERTON-DYER M. F. 11
MR 2

Combinatorics
DR I. B. LEADER M. W. 9 *MR 4*

Optimization and Control
PROF. R. R. WEBER W. F. 10 *MR 3*

Riemann Surfaces
DR C. TELEMAN Tu. Th. 12 *MR 4*

Numerical Analysis
PROF. A. ISERLES M. W. F. 9 *MR 2*

Stochastic Financial Models
DR D. P. KENNEDY Tu. Th. 11 *MR 2*

General Relativity
DR P. D. D'EATH Tu. Th. 9 *MR 2*

A general introductory meeting will be held on Thursday 21 February 2002 for students interested in continuing to Part III of the Tripos in 2002–03. The meeting will be held in *MR 2 at the Centre for Mathematical Sciences* at 4 p.m.

A meeting will be held on Friday 7 June 2002 for finalists who may continue to Part III of the Tripos in 2002–03. The meeting will be held in *MR 2 at the Centre for Mathematical Sciences* at 2.15 p.m.

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 3 October 2001 at 9.30 a.m. for all those who intend to offer courses in Part III.

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DEPARTMENT OF APPLIED MATHEMATICS AND THEORETICAL PHYSICS

Quantum Field Theory

PROF. I. T. DRUMMOND Tu, Th. S. 9 *MR 3*

Elementary Particle Physics

DR H. OSBORN M. W. F. 10 *MR 9*

Statistical Field Theory

DR R. R. HORGAN Tu, Th. 12 *MR 11*

Quantum Information Physics

DR D. JONATHAN AND DR G. MITCHISON Tu, Th. 11 *MR 3*
(Non-examinable, but essays will be set)

General Relativity

DR J. M. STEWART M. W. F. 9 *MR 9*

Cosmology

DR E. P. S. SHELLARD Tu, Th. S. 10 *MR 9*

Local and Global Bifurcations

DR J. H. P. DAWES M. W. F. 10 *MR 11*

Population Dynamics

DR M. KEELING M. W. 12 *MR 4, MR 12*

Structure and Evolution of Stars

DR C. A. TOUT M. W. F. 12 *MR 11*

Astrophysical Fluid Dynamics

PROF. D. O. GOUGH M. W. F. 11 *MR 11*

Magnetic Fields in Stars

PROF. N. O. WEISS Tu, Th. S. 11 *MR 11*

Numerical Solution of Differential Equations

PROF. A. ISERLES Tu, Th. S. 9 *MR 11*

Computer-aided Geometric Design

DR M. SABIN M. 10 *MR 4* and W. 11 *MR 9*

Slow Viscous Flow

DR J. R. LISTER Tu, Th. S. 10 *MR 11*

Perturbation Methods

DR S. J. COWLEY Tu, Th. 12 *MR 9*

Fundamentals of Atmosphere-Ocean Dynamics

PROF. M. E. MCINTYRE M. W. F. 9 *MR 11*

Mechanics of Composites

PROF. J. R. WILLIS Tu, Th. S. 11 *MR 9*

Cellular and Molecular Mechanics

PROF. L. MAHADEVAN and others. Th. 4–6 *Lecture Room 5, Department of Engineering*

(Non-examinable, but essays will be set)

Demonstrations in Fluid Mechanics

DR S. B. DALZIEL Th. 2 *Fluids Laboratory, CMS*

(Non-examinable, but essays will be set)

Advanced Quantum Field Theory

DR J. M. EVANS Tu, Th. S. 11 *MR 9*

Standard Model

DR S. DALLEY M. W. F. 10 *MR 11*

Supersymmetry

DR F. QUEVEDO Tu, Th. 10 *MR 11*

String Theory

PROF. P. GODDARD Tu, Th. S. 9 *MR 3*

Phase Transitions and Collective Phenomena

DR B. D. SIMONS Tu, Th. 12 *Cavendish*

Laboratory

Black Holes

DR M. J. PERRY M. W. F. 11 *MR 3*

Applications of Differential Geometry to Physics

PROF. G. W. GIBBONS M. W. F. 9 *MR 9*

Symmetries and Patterns

PROF. M. R. E. PROCTOR Tu, Th. S. 11 *MR 11*

Galaxies

PROF. J. P. OSTRIKER Tu, Th. S. 9 *MR 11*

Physical Cosmology

DR O. LAHAV M. W. F. 10 *MR 5*

Accretion Discs

DR G. I. OGILVIE Tu, Th. 12 *MR 12*

Approximation Theory

DR A. SHADRIN M. W. F. 12 *MR 11*

Elastic Waves

DR J. A. HUDSON W. F. 11 *MR 11*

Environmental Fluid Dynamics

DR S. DALZIEL AND DR D. LEPPINEN Tu, Th. 12

MR 11

Non-Newtonian Fluid Mechanics

DR J. M. RALLISON M. W. F. 10 *MR 12*

Solidification of Fluids

DR M. G. WORSTER M. W. F. 9 *MR 12*

Stochastic Models of Transport and Mixing

PROF. P. H. HAYNES Tu, Th. 9 *MR 5*

Yang-Mills Fields

PROF. N. S. MANTON M. Tu, Th. F. 11 *MR 5*

Early Universe Cosmology

DR M. BUCHER AND DR R. G. CRITTENDEN M.
Tu, Th. F. 12 *MR 5*

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS

DPMMS Part III courses are listed under four headings. General courses are intended to be of general mathematical interest. Basic courses are intended to give a broad introduction to specific topics. Additional courses may (but need not) be more advanced and are likely to be of more specialised interest. Fourthly 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.

General Courses

Algebraic Topology

DR C. B. THOMAS M. W. F. 11 *MR 5*

Differential Geometry

DR A. KOVALEV M. W. F. 12 *MR 5*

General Course

Banach Algebras

DR G. R. ALLAN M. W. F. 9 *MR 5*

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART III (continued)

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DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS (continued)

Basic Courses

Topics in Group Theory
DR J. SAXL M. W. F. 12 *MR 9*

Complex Analysis
DR T. K. CARNE M. W. F. 10 *MR 5, MR 2, MR 5*

Introduction to Functional Analysis
DR T. W. KÖRNER Tu. Th. S. 11 *MR 5*

Extremal Graph Theory
DR A. G. THOMASON Tu. Th. 10 *MR 5*

Ramsey Theory
DR I. B. LEADER Tu. Th. 9 *MR 4*

Toric Varieties
DR P. M. H. WILSON Tu. Th. S. 12 *MR 5*

Curves and their Jacobians
PROF. N. I. SHEPHERD-BARRON Tu. Th. S. 9 *MR 9*

Category Theory
MS E. L.-G. CHENG M. W. F. 9 *MR 12*

Elliptic Curves
PROF. J. H. COATES M. W. F. 9 *MR 4*

Additional Courses

Set Theory
DR T. E. FORSTER Tu. Th. S. 12 *MR 4*

Further Character Theory
DR P. HEGEDUS Tu. Th. 12, F. 11 *MR 12*

Courses given by the Statistical Laboratory

General

Advanced Probability
DR O. HRYNIV Tu. Th. S. 9 *MR 5*

Mathematics of Operational Research
PROF. R. R. WEBER M. W. F. 10 *MR 12*

Basic

Applied Statistics
DR P. M. E. ALTHAM AND DR B. D. M. TOM Tu. Th. 11 *MR 12*

Algebraic Coding
DR Y. SUHOV M. W. 11 *MR 12*

Probability
DR T. LEVY Tu. Th. 9 *MR 12*
(non-examinable course)

Actuarial Statistics
DR S. M. PITTS M. F. 11 *MR 9, MR 3*

Biostatistics
DR P. TREASURE Tu. Th. 10 *MR 12*

Interacting Particle Systems
PROF. G. R. GRIMMETT M. F. 12 *MR 12*

Advanced Financial Models
DR D. P. KENNEDY M. W. F. 9 *MR 5*

Basic Course

Symplectic Geometry and Hamiltonian Systems
DR G. P. PATERNAIN M. W. F. 12 *MR 9*

Compact Lie Groups
DR C. TELEMANN Tu. Th. 10 *MR 9*

Knot Theory
PROF. W. B. R. LICKORISH M. W. F. 10 *MR 9*

Analytic Number Theory
PROF. A. BAKER W. F. 12 *MR 4*

Modular Forms
DR J. NEKOVAŘ Tu. Th. S. 12 *MR 5*

Additional Courses

Constructive Galois Theory
DR N. F. J. INGLIS Tu. Th. S. 11 *MR 5*

Partially Ordered Groups
PROF. A. M. W. GLASS M. W. F. 9 *MR 11*

Harmonic Analysis
DR D. J. H. GARLING Tu. Th. S. 11 *MR 4*

Algebraic Methods in Combinatorics
DR O. PIKHURKO Tu. Th. 12 *MR 9*

Geometric Invariant Theory
PROF. B. J. TOTARO M. W. F. 11 *MR 9*

Elementary Toposes
DR P. T. JOHNSTONE Tu. Th. S. 9 *MR 12*

Infinite and Finite Model Theory
DR J. M. E. HYLAND AND DR A. DAWAR M. W. F. 11 *MR 5*

Courses given by the Statistical Laboratory

General

Statistical Theory
DR G. A. YOUNG Tu. Th. S. 10 *MR 12*

Basic

Mathematical Models in Financial Management
PROF. M. A. H. DEMPSTER W. 4–6 *Judge Institute*

Stochastic Calculus and Applications
DR J. R. NORRIS M. W. F. 11 *MR 12*

Experimental Design and Multivariate Analysis
DR P. M. E. ALTHAM AND DR S. M. PITTS M. W. F. 12 *MR 12*

Biostatistics
DR S. BIRD AND DR D. SPIEGELHALTER M. 4–6
(Four lectures, starting 21 Jan.) *MR 12*

Biostatistics
DR H. CORDELL AND DR D. CLAYTON W. 2–4
(Four lectures, starting 16 Jan.) *MR 12*

Quantum Information Theory
DR N. DATTA AND DR O. T. JOHNSON M. W. F. 12 *MR 5*

Time Series and Monte Carlo Inference
DR O. HRYNIV, DR S. P. BROOKS AND DR R. KING
Tu. Th. 11 *MR 12* and F. 11 *MR 4*

Basic

Applied Statistics
DR P. M. E. ALTHAM AND DR B. D. M. TOM Tu. Th. 9 *MR 12* (Eight lectures)

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:

- 4 October 2001: PhD applications to Cambridge and other universities
- 11 October 2001: Exams and lectures
- 18 October 2001: How to write a Part III essay
- 15 November 2001: Research opportunities in Cambridge

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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Mathematics of Operational Research* PROF. R. R. WEBER M. W. F. 10 <i>MR 12</i> Applied Statistics* DR P. M. E. ALTHAM AND DR B. D. M. TOM Tu. Th. 11 <i>MR 12</i>	Statistical Theory* DR G. A. YOUNG Tu. Th. S. 10 <i>MR 12</i> Biostatistics DR S. BIRD AND DR D. SPIEGELHALTER M. 4–6 (Four lectures, starting 21 Jan.) <i>MR 12</i> Biostatistics DR H. CORDELL AND DR D. CLAYTON W. 2–4 (Four lectures, starting 16 Jan.) <i>MR 12</i> Experimental Design and Multivariate Analysis DR P. M. E. ALTHAM AND DR S. M. PITTS M. W. F. 12 <i>MR 12</i> Time Series and Monte Carlo Inference DR O. HRYNIV, DR S. P. BROOKS AND DR R. KING Tu. Th. 11 <i>MR 12</i> and F. 11 <i>MR 4</i>	Applied Statistics* DR P. M. E. ALTHAM AND DR B. D. M. TOM Tu. Th. 9 <i>MR 12</i>
Biostatistics DR P. TREASURE Tu. Th. 10 <i>MR 12</i>		
Probability* DR T. LEVY Tu. Th. 9 <i>MR 12</i>		
Advanced Financial Models DR D. P. KENNEDY M. W. F. 9 <i>MR 5</i>		
Actuarial Statistics DR S. M. PITTS M. F. 11 <i>MR 9, MR 3</i>		

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 also offer for examination any Part III courses given by the Statistical Laboratory.

COURSES INTENDED FOR GRADUATES

Complex Continued Fractions
 DR A. F. BEARDON Tu. Th. S. 9 *MR 9*

Topics in Algebraic Geometry
 DR A. CORTI M. Tu. Th. F. 10 *MR 11*
 (Sixteen lectures) (Non-examinable)

OTHER MEETINGS

A meeting will be held on 4 October 2001 at 2 p.m. in *MR 2* for new supervisors (primarily those new to Cambridge).
 A seminar will be held on 25 October 2001 at 5 p.m. in *MR 2* for all supervisors.