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.

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 9 October 2002, *in the Cockcroft Lecture Theatre.*

MICHAELMAS 2002	LENT 2003	EASTER 2003

PART IA

MICHAELMAS 2002	LENT 2003	EASTER 2003
Algebra and Geometry. DR J. SAXL 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. PROF. W. T. GOWERS M. W. F. 10	Analysis I. DR T. W. KORNER Tu. Th. S. 10 Probability. PROF. F. P. KELLY M. W. F. 11 Vector Calculus. DR S. T. C. SIKLOS Tu. Th. S. 11 Dynamics. DR R. E. HUNT M. W. F. 10 Linear Mathematics*. PROF. A. M. W. GLASS M. W. F. 12 *Mill Lane Room 9*	Complex Methods*. DR P. T. JOHNSTONE M. Tu. Th. S. 10 (Sixteen lectures) Special Relativity*. DR A. C. DAVIS W. F. 10 (Eight lectures) Geometry*. PROF. P. M. H. WILSON M. W. F. 11 (Twelve lectures) Optimization*. DR D. P. KENNEDY Tu. Th. S. 9 (Twelve lectures) *Mill Lane Room 3* Numerical Analysis*. DR A. SHADRIN M. W. F. 12 (Twelve lectures) *Mill Lane Room 3* Computational Projects**. DR N. NIKIFORAKIS Tu. Th. S. 11 (Six lectures)
Non-Examinable Courses Introduction to Physics***. PROF. L. MAHADEVAN M. W. 9 (12 lectures) *Mill Lane Room 9* 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.

MICHAELMAS 2002	LENT 2003	EASTER 2003
Introduction to Computer Science. PROF. I. M. LESLIE Th. 12 (One lecture)		Operating Systems. DR S. M. HAND Tu. Th. S. 12
Foundations of Computer Science. DR L. C. PAULSON Tu. Th. S. 12 (Fifteen lectures, beginning 12 Oct.)		
Discrete Mathematics. DR P. ROBINSON Tu. Th. S. 12 (Eight lectures, beginning 16 Nov.)	The same continued.	
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) *Lecture Theatre 1, William Gates Building*	Programming in Java. DR A. C. NORMAN Tu. Th. S. 12 (Sixteen lectures, beginning 4 Feb.)	
Programming Practical Class. DR L. C. PAULSON AND DR F. H. KING Th. 2–4 (Three fortnightly classes, beginning 24 Oct. *or* 31 Oct.) *Cockcroft Building, Floor 4*	Programming Practical Class. DR F. H. KING Th. 2–4 (One class,16 Jan. *or* 23 Jan.) *Cockcroft Building, Floor 4*	Programming Practical Class. DR F. H. KING AND DR A. C. NORMAN Th. 1–4 (Two fortnightly classes, beginning 24 Apr. *or* 1 May) *Cockcroft Building, Floor 4*
Assessed Exercise Word. M. *or* Tu. *or* W. 2–4 *Cockcroft Building, Floor 4*		Assessed Exercise Word. M. *or* Tu. or W. 2–4 *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.

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

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART IA (continued) AND PART IB

MICHAELMAS 2002	LENT 2003	EASTER 2003

How to Study Computer Science.
DR A. C. NORMAN AND OTHERS   Th. 5 (One lecture, 24 Oct.) *Arts School, Room A*

UNIX Registration.
DR F. H. KING, MISS C. H. NORTHEAST AND MR R. J. STIBBS   Th. *or* F. 2–4.30 (One class, 30 Jan. or 31 Jan. or 6 Feb.) *Lecture Theatre 1, William Gates Building*

Tick-Four Briefing.
DR F. H. KING   Th. 5 (One lecture, 31 Oct.) *Hopkinson Lecture Room*

Programming Practical Class.
DR F. H. KING AND DR A. C. NORMAN   Th. 2–4 (Two fortnightly classes, beginning 13 Feb. or 20 Feb.) *Cockcroft Building, Floor 4*

Help Sessions.
DR M. E. VAN INWEGEN   Th. 4 (Four classes, beginning 7 Nov.) *Hopkinson Lecture Room*

Assessed Exercise Word.   M. *or* Tu. *or* W. 2–4 *Cockcroft Building, Floor 4*

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.

Mechanics and Relativity.
DR S. R. JULIAN   M. W. F. 9 (first 20 lectures) *Chemical Laboratory, Lensfield Road*

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

Fields, Oscillations and Waves.
DR J. RILEY   M. W. F. 9 (last 4 lectures) *Chemical Laboratory, Lensfield Road*

Statistics and Quantum Physics.
DR P. ALEXANDER   M. W. F. 9 (last eight lectures) *Chemical Laboratory, Lensfield Road*

Statistics and Quantum Physics.
DR P. ALEXANDER   M. W. F. 9 (Twelve lectures) *Chemical Laboratory, Lensfield Road*

A meeting will be held for all Part IA students on Friday 2 May 2003 at 2 p.m. in *Mill Lane Room 3* to discuss examinations and examination techniques.

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., 12.15 p.m.

Analysis II.
DR G. P. PATERNAIN   Tu. Th. S. 11 *Room 3*
Methods.
DR N. PEAKE   M. W. F. 9 *Room 3*
Quadratic Mathematics
DR D. J. H. GARLING   Tu. Th. 9 *Room 3*
Fluid Dynamics.
PROF. M. E. MCINTYRE   Tu. Th. 12 *Room 3*
Quantum Mechanics.
PROF. N. MANTON   Tu. Th. 10 *Art School Room A*
Linear Mathematics.
DR J. M. E. HYLAND   M. W. F. 10 *Art School Room A*
Electromagnetism*.
DR A. J. MACFARLANE   M. W. F. 11.15 *CMS Meeting Room 2*
Markov Chains*.
DR J. R. NORRIS   M. W. F. 12.15 *CMS Meeting Room 2*
Topics in the History of Mathematics.
DR P. BURSILL-HALL   M. W. F. 4 *Mill lane Room 9*

Statistics.
DR S. M. PITTS   W. S. 9 *Room 3*
Quantum Mechanics.
PROF. M. B. GREEN   Tu. Th. S. 10 (first sixteen lectures, ending 20 Feb.) *Art School Room A*
Special Relativity.
DR R. WILLIAMS   Tu. Th. S. 10 (last eight lectures, beginning 22 Feb.) *Art School Room A*
Fluid Dynamics.
DR N. BERLOFF   Tu. 11 Th. 12 *Room 3*

Complex Methods.
DR P. D. D'EATH   M. F. 9 *Room 3*
Quadratic Mathematics.
DR A. G. KOVALEV   Tu. S. 12 *Room 3*
Further Analysis.
DR T. K. CARNE   Tu. Th. 9 *Room 3*
Groups, Rings and Fields*.
DR A. CORTI   M. W. F. 10.15 *Room 9*
Dynamics of Differential Equations*.
PROF. M. R. E. PROCTOR   M. W. F. 12.15 *Room 3*
Principles of Dynamics*.
PROF. N. TUROK   M. W. F. 11.15 *Room 3*
Functional Analysis*.
DR G. R. ALLAN   Th. S. 11.15 *Room 3*

Numerical Analysis.
DR A. SHADRIN   M. W. F. 12 (Twelve lectures) *Room 3*
Geometry.
PROF. P. M. H. WILSON   M. W. F. 11 (Twelve lectures) *Cockcroft Lecture Theatre*
Special Relativity.
DR A. C. DAVIS   W. F. 10 (Eight lectures) *Cockcroft Lecture Theatre*
Complex Methods.
DR P. T. JOHNSTONE   M. Tu. Th. S. 10 (Sixteen lectures) *Cockcroft Lecture Theatre*
Optimization.
DR D. P. KENNEDY   Tu. Th. S. 9 (Twelve lectures) *Room 3*

* Examined in the 2004 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.

MICHAELMAS 2002	LENT 2003	EASTER 2003

ALTERNATIVE A

Graph Theory.
  DR T. A. FISHER   W. S. 10 *MR 2*
Electromagnetism.
  DR A. J. MACFARLANE   M. W. F. 11.15 *MR 2*
Mathematical Methods.
  DR P. D. D'EATH   Tu. F. 10 *MR 2*
Functional Analysis.
  DR M. MAZZOCCO   M. W. F. 11 *MR 9*
Algorithms and Networks.
  DR M. J. LUCZAK   M. Th. 10 *MR 2*
Statistical Physics and Cosmology.
  PROF. P. K. TOWNSEND   M. W. 9 *MR 13*
Logic, Computation and Set Theory.
  DR I. B. LEADER   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*
Number Theory.
  PROF. J. H. COATES   Tu. Th 11. *MR 2*
Transport Processes.
  PROF. T. J. PEDLEY   Tu. Th. 12 *MR 4*
Computational Projects.
  DR N. NIKIFORAKIS   M. W. F. 2 (Six lectures) *Mill Lane Room 9*

Computational Statistics and Statistical
    Modelling.
  DR P. M. E. ALTHAM   Tu. Th. 12 *MR 2*
Theoretical Geophysics.
  PROF. H. E. HUPPERT   Tu. Th. 12 *MR 3*
Geometry of Surfaces.
  PROF. N. I. SHEPHERD-BARRON   Tu. Th. 10 *MR 4*
Quantum Physics.
  DR I. T. DRUMMOND   M. W. 10 *MR 4*
Dynamics of Differential Equations.
  PROF. M. R. E. PROCTOR   M. W. F. 12.15 *Mill Lane Room 3*
Numerical Analysis.
  PROF. A. ISERLES   M. W. F. 9 *MR 2*
Stochastic Financial Models.
  PROF. L. C. G. ROGERS   Tu. Th. 11 *MR 2*
General Relativity.
  PROF. G. W. GIBBONS   Tu. Th. 9 *MR 2*
Non-Linear Waves and Integrable Systems.
  PROF. T. FOKAS   Tu. Th. 10 *MR TBA*
Principles of Dynamics.
  PROF. N. TUROK   M. W. F. 11.15 *Mill Lane Room 3*
Groups, Rings and Fields.
  DR A. CORTI   M. W. F. 10.15 *Mill Lane Room 9*

Symmetries and Groups in Physics.
  DR M. DÖRRZAPF   M. Tu. Th. F. 11 (Twelve lectures) *MR 4*
Coding and Cryptography.
  DR T. W. KORNER   M. Tu.Th. F. 10 (Twelve lectures) *MR 4*

ALTERNATIVE B

Hilbert Spaces.
  DR G. R. ALLAN   Tu. F. 10 *MR13*
Probability and Measure.
  DR A. M. STACEY   Tu. Th. S. 11 *MR 4*
Number Fields.
  PROF. A. BAKER   Tu. Th. 12 *MR 13*
Electrodynamics.
  DR M. J. PERRY   Tu. Th. 11 *MR 13*
Fluid Dynamics II.
  PROF. H. HUPPERT   M. W. F. 12 *MR13*
Methods of Mathematical Physics.
  DR S. T. C. SIKLOS   M. W. F. 11 *MR 4*
Partial Differential Equations.
  DR S. DEMOULINI   M. W. F. 12 *MR 4*
Information Theory.
  DR Y. SUHOV   W. S. 10 *MR 4*
Algebraic Topology.
  PROF. B. TOTARO   W. S. 10 *MR 3*
Galois Theory.
  PROF. A. J. SCHOLL   M. Th. 10 *MR 3*
Logic, Computation and Set Theory.
  DR I. B. LEADER   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) *Mill Lane Room 9*

Differentiable Manifolds.
  DR D. BARDEN   W. S. 11 *MR 5*
Representation Theory.
  PROF. C. B. THOMAS   M. W. F. 12 *MR 5*
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*
Algebraic Curves.
  DR I. GROJNOWSKI   Tu. Th. 10 *MR 5*
Applied Probability.
  DR M. J. LUCZAK   Tu. Th. 9 *MR 4*
Dynamical Systems.
  PROF. N. WEISS   M. F. 11 *MR 5*
Combinatorics.
  DR A. G. THOMASON   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.
  PROF. L. C. G. ROGERS   Tu. Th. 11 *MR 2*
General Relativity.
  PROF. G. W. GIBBONS   Tu. Th. 9 *MR 2*

A meeting will be held on Friday, 6 June 2003 for finalists who may continue to Part III of the Tripos in 2003–04. 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 9 October 2002 at 9.30 a.m. for all those who intend to offer courses in Part III.

DEPARTMENT OF APPLIED MATHEMATICS AND THEORETICAL PHYSICS

MICHAELMAS 2002	LENT 2003	EASTER 2003

Quantum Field Theory.
  PROF. I. T. DRUMMOND   Tu. Th. S. 9 *MR 3*
Symmetry and Particle Physics.
  DR H. OSBORN   Tu. Th. S. 10 *MR 9*
Statistical Field Theory.
  DR R. R. HORGAN   Tu. Th. 12 *MR 9*
Quantum Information Science.
  PROF. A. EKERT   Tu. Th. 11 *MR3*
General Relativity.
  DR J. M. STEWART   M. W. F. 9 *MR 3*
Local and Global Bifurcations.
  DR J. H. P. DAWES   M. W. F. 10 *MR 11*
Galaxies.
  PROF. J. P. OSTRIKER   Tu. Th. 10 *MR 11* and W. 11 *MR 3*
Structure and Evolution of Stars.
  DR C. A. TOUT   M. W. F. 12 *MR 11*
Theory of Elastic Solids.
  PROF. J. R. WILLIS   Tu. Th. 12 *MR 11* (Sixteen lectures)
Numerical Solution of Differential Equations.
  PROF. A. ISERLES   M. W. F. 11 *MR 13*
Computer-aided Geometric Design.
  DR M. SABIN   Tu. Th. 11 *MR 11*
Slow Viscous Flow.
  DR J. A. RALLISON   Tu. Th. S. 9 *MR 11*
Fundamentals of Atmosphere-Ocean Dynamics.
  PROF. M. E. MCINTYRE   M. W. F. 12 *MR 12*
Computational Methods in Fluid Mechanics.
  PROF. E. H. HINCH AND DR S. J. COWLEY (Non-examinable, but essays will be set)   M. W. F. 9 *MR 11*
Demonstrations in Fluid Mechanics.
  DR S. B. DALZIEL   Th. 2 *Fluids Lab, CMS* (Non-examinable, but essays will be set)
Cosmology.
  DR A. C. DAVIS   M. W. 10 *MR 5* (Sixteen lectures)
Molecular and Cellular Biophysics.
  PROF. L. MAHADEVAN   Tu. Th. 11 *MR 9*

Advanced Quantum Field Theory.
  DR J. M. EVANS   Tu. Th. S. 11 *MR 3*
Standard Model.
  TO BE ARRANGED   M. W. F. 10 *MR 9*
Advanced Cosmology.
  PROF. N. G. TUROK, DRS M. A. BUCHER AND R. G. CRITTENDEN   Tu. Th. S. 12 *MR 9*
String Theory.
  PROF. M. B. GREEN   M. W. F. 9 *MR 9*
Conformal Field Theory.
  PROF. P. GODDARD   Tu. Th. S. 9 *MR 9*
Black Holes.
  DR M. J. PERRY   Tu. Th. S. 10 *MR 3*
Applications of Differential Geometry to Physics.
  PROF. G. W. GIBBONS   M. W. F. 11 *MR 2*
Symmetries and Patterns.
  PROF. M. R. E. PROCTOR   Tu. Th. S. 11 *MR 11*
Boundary Problems for Integrable PDEs.
  PROF. A. S. FOKAS   Tu. Th. 12 *MR 12* (Sixteen lectures)
Physical Cosmology.
  DR O. LAHAV   M. W. F. 10 *MR5*
Astrophysical Discs and Magnetohrodynamics.
  DR G. I. OGILVIE   M. W. F. 11 *MR 4*
Approximation Theory.
  DR A. SHADRIN   M. W. F. 11 *MR 11*
Astrophysical Fluid Dynamics.
  PROF. J. E. PRINGLE   M. W. F. 12 *MR 11*
Environmental Fluid Dynamics.
  DR S. DALZIEL AND DR D. LEPPINEN   Tu. Th. 12 *MR 11*
Acoustics and Stability.
  DR N. PEAKE AND DR R. E. HUNT   Tu. Th. S. 10 *MR 11*
Solidification of Fluids.
  DR M. G. WORSTER   M. F. 9 *MR 11*
Seismic Waves.
  DR A. J. HAINES   Tu. Th. 11 *MR 9*
Physiological Fluid Dynamics.
  PROF. T. J. PEDLEY   Tu. Th. 9 *MR 11*

Supersymmetry.
  PROF. P. K. TOWNSEND   M. Tu. Th. F. 10 *MR 5* (Sixteen lectures)
Solitons and Instanons.
  PROF. N. S. MANTON   M. Tu. Th. F. 11 *MR 5* (Sixteen lectures)

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.

Algebraic Topology.
  PROF. B. TOTARO   M. W. F. 12 *MR 5*
Differential Geometry.
  DR A. KOVALEV   M. W. F. 11 *MR 5*

Global Riemannian Geometry.
  DR G. P. PATERNAIN   Tu. Th. 12 *MR 5* and M. 10 *MR 3*

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART III (continued)

MICHAELMAS 2002	LENT 2003	EASTER 2003

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS (continued)

Basic Algebraic Geometry.
DR A. CORTI   Tu. Th. S. 9 *MR4*
Introduction to Banach Spaces and Algebras.
DR G. R. ALLAN   Tu. Th. S. 12 *MR 5*
Category Theory.
DR E. L.-G. CHENG   M. W. F. 11 *MR 11*
Elliptic Curves.
PROF. J. H. COATES   M. W. F. 12 *MR 9*

Set Theory.
DR T. E. FORSTER   Tu. Th. S. *MR 9*
Restriction and Kakeya Phenmena.
DR B. J. GREEN   M. W. F. 9 *MR 5*
ODE's in the Complex Domain.
DR M. MAZZOCCO   Tu. Th. 9 *MR 13*
Finite Dimensional Lie Algebras and their
    Representations.
DR M. B. BATCHELOR   Tu. Th. S. 11 *MR 5*
Noetherian Algebras.
DR C. J. B. BROOKES   M. W. F. 9 *MR 9*
Random Graphs.
PROF. B. BOLLOBAS   W. F. 12 *MR 3*

Courses given by the Statistical Laboratory
Advanced Probability.
DR O. HRYNIV   Tu. Th. S. 9 *MR 5*
Mathematics of Operational Research.
PROF. R. R. WEBER   M. 12 *MR 3* and Tu. Th. 10 *MR 5*

Applied Statistics.
DR P. M. E. ALTHAM AND DR B. D. M. TOM   Tu. Th. 11
    MR 12
Poisson Processes.
PROF. SIR JOHN KINGMAN   M. W. 11 *MR 12*
Actuarial Statistics.
DR S. M. PITTS   Tu. Th. 12 *MR 12*
Interacting Particle Systems.
PROF. G. R. GRIMMETT   M. W. F. 10 *MR12*
Survival Data.
DR P. TREASURE   Tu. Th. 10 *MR 12* (Ten lectures starting
    15 October)
Advanced Financial Models.
DR D. P. KENNEDY   M. W. F. 9 *MR4*

Extremal Combinatorics.
DR A. G. THOMASON   Tu. Th. 11 *MR 5*
Classical Groups.
DR J. SAXL   M. W. F. 10 *MR 11*
Constructive Topology.
DR P. T. JOHNSTONE   Tu. Th. S. 9 *MR 13*
Analytic Number Theory.
PROF. A. BAKER   W. F. 12 *MR 13*
Bounded Analytic Functions.
DR T. K. CARNE   M. W. F. 10 *MR 13*
Topological Groups.
DR T. W. KÖRNER   M. W. F. 9 *MR13*

Additive and Combinatorial Number Theory.
PROF. W. T. GOWERS   Tu. Th. S. 10 *MR13*
Morse Theory.
DR C. TELEMAN   M. W. F. 11 *MR 9*
Classical Banach Spaces.
DR D. J. H. GARLING   Tu. Th. 11 *MR12*
3D Manifolds.
PROF. C. B. THOMAS   Tu. Th. S. 11 *MR13*
Topics in Representation Theory.
DR I. GROJNOWSKI   M. W. F. 11 *MR 13*
Geometrical Group Theory.
DR A. HARKINS   M. W. F. 12 *MR 4*
Symplectic Geometry.
DR I. SMITH   Tu. Th. S. 10 *MR 9*
Class Field Theory.
DR T. FISHER   M. W. F. 9 *MR 5*
Modular Forms.
PROF. A. SCHOLL   Tu. Th. S. 11 *MR 4*

Courses given by the Statistical Laboratory
Statistical Theory.
DR G. A. YOUNG   M. W. F. 10 *MR 12*

Algebraic Coding.
DR Y. M. SUHOV   Tu. Th. S. 10 *MR 12* (Sixteen
    lectures)
Stochastic Calculus and Applications.
DR J. R. NORRIS   M. W. F. 12 *MR 12*
Experimental Design and Multivariate Analysis.
DR P. M. E. ALTHAM AND DR S. M. PITTS   M. W.
    F. 11 *MR 12*
Stochastic Networks.
DR F. P. KELLY   Tu. Th. 9 *MR 12*
Statistical Genetics.
DR H. CORDELL AND DR P. HOLMANS   M. 4–6
    MR 12 (Seven lectures)
Statistics in Medical Practice.
DR S. BIRD, DR V. FAREWELL AND DR D. S.
    SPIEGELHALTER   W. 2–4 *MR 12* (Seven
    lectures)
Quantum Information Theory.
DR N. DATTA AND DR Y. M. SUHOV   M. W. F. 12
    MR 9
Time Series and Monte Carlo Inference.
DR O. HRYNIV, DR R. KING AND DR S. P. BROOKS
    M. W. F. 9 *MR 12*

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

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:
    16 October 2002: PhD applications to Cambridge and other universities
    23 October 2002: Exams and lectures
    30 October 2002: How to write a Part III essay
    27 November 2002: Research opportunities in Cambridge