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

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 6 October 2004, *in the Cockcroft Lecture Theatre.*

A meeting will be held for all Part IA students on Thursday 5 May 2005 at 12 noon in *Mill Lane Room 3* to discuss examinations and examination techniques.

MICHAELMAS 2004 **LENT 2005** **EASTER 2005**

PART IA

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

Differential Equations.
DR S. B. DALZIEL M. W. F. 10

Numbers and Sets.
PROF. W. T. GOWERS Tu. Th. S. 10

Algebra and Geometry.
PROF. P. K. TOWNSEND AND PROF. T. W. KÖRNER M. Tu. W. Th. F. S. 11

Non-Examinable Courses
Introduction to Physics***.
DR M. G. WORSTER M. W. 9 (Twelve lectures) *Mill Lane Room 9*
Topics in the History of Mathematics.
DR P. BURSILL-HALL M. W. F. 4 *Mill Lane Room 1*

Analysis I.
PROF. A. F. BEARDON Tu. Th. S. 10

Probability.
PROF. F. P. KELLY M. W. F. 10

Vector Calculus.
DR M. DÖRRZAPF Tu. Th. S. 11

Dynamics.
DR R. E. HUNT M. W. F. 11

Optimization*.
DR D. P. KENNEDY M. W. F. 9 (Twelve lectures) *Mill Lane Room 3*
Special Relativity*.
PROF. M. B. GREEN Tu. Th. 12 (Eight lectures) *Mill Lane Room 3*
Metric and Topological Spaces*.
PROF. B. J. TOTARO M. W. F. 11 (Twelve lectures) *Mill Lane Room 3*
Computational Projects**.
DR R. E. HUNT AND OTHERS Tu. Th. 11 (Six lectures) *Mill Lane Room 3*
Numerical Analysis*.
DR A. SHADRIN M. W. F. 12 (Twelve lectures) *Mill Lane Room 3*

Mathematics with Computer Science Option:

Students taking this option should attend Algebra and Geometry, 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.

Introduction to Computer Science.
PROF. A. HOPPER Th. 12 (One lecture)

Foundations of Computer Science.
PROF. L. C. PAULSON Tu. Th. S. 12 (Fifteen lectures, beginning 9 Oct.)

Examination Briefing.
DR F. H. KING W. 10 (One lecture, 25 May) *Hopkinson Lecture Room*
Operating Systems.
DR S. M. HAND Tu. Th. S. 12

* Examined in Part IB of the Tripos.
** Examined in Part IB 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 written 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

MICHAELMAS 2004	LENT 2005	EASTER 2005
Discrete Mathematics. DR P. ROBINSON Tu. Th. S. 12 (Eight lectures, beginning 13 Nov.)	The same continued. PROF. G. WINSKEL Tu. Th. S. 12 (Eight lectures) interleaved with… Programming in Java. DR A. C. NORMAN Tu. Th. S. 12 (Sixteen lectures, beginning 25 Jan.)	
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*	Discrete Mathematics Seminars. PROF. G. WINSKEL AND OTHERS M. 9 (Four classes) *Hopkinson Lecture Room*	
Programming Practical Class. PROF. L. C. PAULSON AND DR F. H. KING Th. 2–4 (Three fortnightly classes, beginning 21 Oct. *or* 28 Oct.) *Cockcroft Building, Floor 4*	Programming Practical Class. DR F. H. KING AND DR A. C. NORMAN Th. 2–4 (Four fortnightly classes, beginning 20 Jan. *or* 27 Jan.) *Cockcroft Building, Floor 4*	Programming Practical Class. DR F. H. KING AND DR A. C. NORMAN Th. 1–4 (Two fortnightly classes, beginning 28 Apr. or 5 May.) *Cockcroft Building, Floor 4*
Assessed Exercise Work. M. or Tu. or W. 2–4 *Cockcroft Building, Floor 4*	Assessed Exercise Work. M. or Tu. or W. 2–4 *Cockcroft Building, Floor 4*	Assessed Exercise Work M. or Tu. or W. 2–4 *Cockcroft Building, Floor 4*
How to Study Computer Science. DR A. C. NORMAN AND OTHERS Th. 5 (One lecture, 21 Oct.) *Arts School, Room A, Bene't Street*	How to install Linux. DR R. J. DOWLING Th. 5 (One lecture, 17 Feb) *Hopkinson Lecture Room*	Part IB Assessed Exercise Briefing. DR A. C. NORMAN AND DR J. K. FAWCETT Th. 4.30 (One lecture, 19 May) *Arts School, Room A, Bene't Street*
Tick-Four Briefing. DR F. H. KING Th. 5 (One lecture, 28 Oct) *Hopkinson Lecture Room* Help Sessions. MR R. G. ROSS Th. 4 (Four classes, beginning 4 Nov.) *Hopkinson Lecture Room*	Skills Briefing. DR N. A. DODGSON Th. 5 (One lecture, 10 Mar) *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.

Mechanics and Relativity. DR P. DUFFETT-SMITH M. W. F. 9 (First twenty lectures) Chemical Laboratory, Lensfield Road Fields, Oscillations and Waves. DR J. RILEY M. W. F. 9 (Last four lectures) *Chemical Laboratory, Lensfield Road*	Fields, Oscillations and Waves. DR J. RILEY M. W. F. 9 (First sixteen lectures) *Chemical Laboratory, Lensfield Road* Statistical and Quantum Physics. DR P. ALEXANDER M. W. F. 9 (Last eight lectures) *Chemical Laboratory, Lensfield Road*	Statistical and Quantum Physics. DR P. ALEXANDER M. W. F. 9 (Twelve lectures) *Chemical Laboratory, Lensfield Road*

MATHEMATICAL TRIPOS PART IB

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

Analysis II. PROF. J. M. E. HYLAND M. W. F. 12 *Room 3* Methods. PROF. N. PEAKE M. W. F. 9 *Room 3* Linear Algebra. PROF. J. SAXL M. W. F. 11 *Room 3* Fluid Dynamics. PROF. E. J. HINCH Tu. Th. 11 *Room 3* Quantum Mechanics. PROF. I. T. DRUMMOND Tu. Th. 10 *Room 9* Markov Chains. DR J. R. NORRIS Tu. Th. 12 (First twelve lectures) *Room 3*	Statistics. DR Y. M. SUHOV Tu. Th. 12 *Room 3* Electromagnetism. PROF. N. G. TUROK M. W. F. 12 (First sixteen lectures, ending 25 Feb.) *Room 3* Special Relativity. DR R. M. WILLIAMS M. W. F. 11 (Last eight lectures, beginning 28 Feb.) *Room 3* Fluid Dynamics. DR N. BERLOFF W. F. 10 *Room 9* Complex Methods. PROF. F. QUEVEDO M. Th. 10 *Room 3* Quantum Mechanics. DR R. M. WILLIAMS M. W. F. 11 Room 3 (First sixteen lectures) Geometry. PROF. P. M. H. WILSON Tu. Th. 11 *Room 3* Complex Analysis. DR M. MAZZOCCO Tu. Th. 9 *Room 3* Groups, Rings and Modules. DR C. J. B. BROOKES M. W. F. 9 *Room 3*	Numerical Analysis. DR A. SHADRIN` M. W. F. 12 (Twelve lectures) *Room 3* Optimization. DR D. P. KENNEDY M. W. F. 9 (Twelve lectures) *Room 3* Special Relativity. PROF. M. B. GREEN Tu. Th. 12 (Eight lectures) *Room 3* Metric and Topological Spaces. PROF. B. J. TOTARO M. W. F. 11 (Twelve lectures) *Room 3*

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Faculty of Mathematics (continued)

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 Monday, 13 June 2005 for finalists who may continue to Part III of the Tripos in 2005–06. The meeting will be held in *MR2 at the Centre for Mathematical Sciences* at 11.15 a.m.

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C COURSES

Topics in Analysis.
PROF. W. T. GOWERS M. W. F. 9 *MR 2*
Classical Dynamics.
DR D. TONG M. W. F. 10 *MR 3*
Number Theory.
DR A. CORTI Tu. Th. S. 9 *MR 3*
Further Complex Methods.
DR S. T. C. SIKLOS Tu. Th. S. 11 *MR 2*
Mathematical Biology.
DR J. PAULSSON Tu. Th. S. 12 *MR 4*
Computational Projects.
DR N. NIKIFORAKIS AND OTHERS M. W. F. 2 (Six lectures) *MR 2*

Geometry of Group Actions.
DR I. SMITH M. W. F. 9 *MR 3*
Statistical Modelling.
DR P. M. E. ALTHAM M. W. F. 11 *MR 3*
Cosmology.
DR E. P. S. SHELLARD M. W. F. 12 *MR 3*
Dynamical Systems.
DR J. R. LISTER Tu. Th. S. 10 *MR 3*
Coding and Cryptography.
DR T. A. FISHER Tu. Th. S. 12 *MR 3*

D COURSES

Partial Differential Equations.
DR D. M. A. STUART M. W. F. 9 *MR 4*
Algebraic Topology.
DR M. MANDELL M. W. F. 10 *MR 5*

Principles of Quantum Mechanics.
DR J. M. EVANS M. W. F. 11 *MR 2*
Probability and Measure.
PROF. G. R. GRIMMETT M. W. F. 11 *MR 3*
Principles of Statistics.
PROF. L. C. G. ROGERS M. W. F. 12 *MR 3*
Fluid Dynamics.
PROF. H. E. HUPPERT M. W. F. 12 *MR 13*
Number Fields.
PROF. A. BAKER Tu. Th. 12 *MR 13*
Electrodynamics.
DR J. M. STEWART Tu. Th. 9 *MR 14*
Galois Theory.
PROF. A. J. SCHOLL Tu. Th. S. 10 *MR 5*
Integrable Systems.
PROF. T. FOKAS Tu. Th. 10 *MR 4*
Applied Probability.
PROF. Y. M. SUHOV Tu. Th. S. 11 *MR 4*
Linear Analysis.
DR M. DAFERMOS M. W. F. 12 *MR 4*
Computational Projects.
DR N. NIKIFORAKIS AND OTHERS M. W. F. 2 (Six lectures) *MR 2*

Numerical Analysis.
PROF. A. ISERLES M. W. F. 9 *MR 4*
Stochastic Financial Models.
PROF. L. C. G. ROGERS AND DR P. K. FRIZ M. W. F. 10 *MR 2*
Applications of Quantum Mechanics.
PROF. H. OSBORN M. W. F. 10 *MR 3*
General Relativity.
PROF. G. W. GIBBONS Tu. Th. 9 *MR 2*
Representation Theory.
DR C. TELEMAN M. W. F. 11 *MR 4*
Logic and Set Theory.
DR I. B. LEADER M. W. F. 12 *MR 2*
Statistical Physics.
DR R. R. HORGAN Tu. Th. 11 *MR 4*
Graph Theory.
DR A. G. THOMASON Tu. Th. S. 9 *MR 3*
Differential Geometry.
DR G. P. PATERNAIN Tu. Th. S. 10 *MR4*
Waves.
DR J. M. RALLISON M. W. F. 11 *MR 2*
Riemann Surfaces.
DR A. G. KOVALEV Tu. Th. S. 11 *MR 13*
Optimization and Control.
PROF. R. R. WEBER Tu. Th. 11 *MR 5*
Asymptopic Methods
DR P. D. D'EATH Tu. Th. 12 *MR 5*

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 6 October 2004 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:
13 October 2004: PhD applications to Cambridge and other universities
20 October 2004: Exams and lectures
27 October 2004: How to write a Part III essay
24 November 2004: Research opportunities in Cambridge

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DEPARTMENT OF APPLIED MATHEMATICS AND THEORETICAL PHYSICS

Quantum Field Theory.
PROF. N. S. MANTON Tu. Th. S. 9 *MR 2*

Fundamentals of Ocean-Atmosphere Dynamics.
PROF. M. E. MCINTYRE M. W. F. 9 *MR 5*
Computational Methods in Fluid Mechanics.
PROF. E. J. HINCH AND DR P. D. METCALFE Tu. Th. 9 *MR 15* (non-examinable, but essays will be set)
General Relativity.
DR J. M. STEWART M. W. F. 10 *MR 2*

Cosmology.
PROF. A. C. DAVIS Tu. Th. 10 *MR 2*
Bifurcations and Instabilities in Dissipative Systems.
DR J. H. P. DAWES M. W. F. 10 *MR 9*
Asymptotic Methods in Fluid Mechanics.
DR S. J. COWLEY AND PROF. N. PEAKE TU. Th. S. 10 *MR 15*
Statistical Field Theory.
DR R. R. HORGAN Tu. Th. 11 *MR 3*
Astrophysical Fluid Dynamics.
PROF. J. E. PRINGLE Tu. Th. S. 11 *MR 9*
Slow Viscous Flows.
DR J. R. LISTER M. W. F. 11 *MR 15*
Fourier Transforms and the Imaging of the Brain.
PROF. T. FOKAS M. W. 11 *MR 14*
Computer-aided Geometric Design.
DR M. SABIN Tu. Th 11 *MR 15*
Introduction to Quantum Computation.
PROF. A. EKERT Tu. Th. 12 *MR 3*
Symmetry and Particle Physics.
PROF. H. OSBORN M. W. F. 12 *MR 9*
Structure and Evolution of Stars.
DR C. A. TOUT M. W. F. 12 *MR 15*
Nonlinear Continuum Mechanics.
PROF. J. R. WILLIS Tu. Th. S. 12 *MR 15*

Advanced Cosmology.
PROF. N. G. TUROK AND DR E. P. S. SHELLARD M. W. F. 9 *MR 2*
Galaxies and Dark Matter.
PROF. G. F. GILMORE Tu. Th. S. 9 *MR 4*
The Standard Model.
DR B. ALLANACH M. 2 Tu. Th. 11 *MR 9*

Approximation Theory.
DR A. SHADRIN M. W. F. 9 *MR 15*

Physiological Fluid Dynamics.
PROF. T. J. PEDLEY Tu. Th. 9 *MR 15*
String Theory.
PROF. M. B. GREEN M. W. F. 10 *MR 9*
Accretion Discs.
DR G. I. OGILVIE Tu. Th. 10 *MR 9*
Physical Cosmology.
PROF. M. PETTINI M. W. F. 10 *MR 14*
Seismic Waves.
DR A. J. HAINES M. F. 10 *MR 15*
Numerical Solution of Differential Equations.
PROF. A. ISERLES M. W. F. 11 *MR 15*
Advanced Quantum Field Theory.
PROF. I. T. DRUMMOND Tu. Th. S. 11 *MR 2*
Black Holes.
DR M. J. PERRY M. W. F. 11 *MR 9*
Magnetohydrodynamics and Turbulence.
DR A. SCHEKOCHIHIN M. W. F. 12 *MR 5*
Supersymmetry and Extra Dimensions.
PROF. F. QUEVEDO M. W. F. 12 *MR 9*
Applications of Differential Geometry to Physics.
PROF. G. W. GIBBONS Tu. Th. S. 12 *MR 9*
Buoyancy Effects in Fluids.
PROF. H. E. HUPPERT Tu. Th. 12 *MR 15*
Demonstrations in Fluid Dynamics.
DR S. B. DALZIEL Th. 2 *GK Batchelor Laboratory, CMS* (non-examinable)
Superfluid Vortices.
DR N. BERLOFF Tu. Th. 11 *MR 15*

Branes.
PROF. P. K. TOWNSEND M. Tu. Th. F. 10 *MR 4*

Dynamo Theory.
PROF. M. R. E. PROCTOR M. Tu. Th. F. 10 *MR 5*
Solitons and Instantons.
DR M. DUNAJSKI M. Tu. Th. F. 11 *MR 4*

Macroscopic Behaviour of Microscopic Structure in Fluid and Solid Media.
DR V. H. HOANG Tu. Th. 11 *MR 5* (non-examinable)
Quantum Information Science.
DR A. P. A. KENT M. Tu. Th. F. 12 *MR 4*

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.

Topics in Group Theory.
PROF. J. SAXL Tu. Th. S. 9 *MR 5*
Introduction to Functional Analysis.
PROF. T. W. KÖRNER Tu. Th. S. 9 *MR 4*
Topics in Algebraic Geometry.
PROF. N. I. SHEPHERD-BARRON M. W. F. 9 *MR 13*
Lie Algebras and Representation Theory.
DR M. BATCHELOR M. W. F. 9 *MR 3*
Algebraic Topology.
DR I. SMITH M. W. F. 10 *MR 4*
Algebraic Geometry.
PROF. P. M. H. WILSON Tu. Th. S. 10 *MR 9*

Deformation Theory.
DR J. P. PRIDHAM M. W. F. 9 *MR 5*
Groups of Lie Type.
DR M. VSEMIRNOV M. W. F. 9 *MR 13*
Stable Homotopy Theory.
DR M. MANDELL Tu. Th. S. 9 *MR 13*
Banach Algebras.
DR G. R. ALLAN M. W. F. 10 *MR 5*
Class Field Theory.
DR T. A. FISHER Tu. Th. S. 10 *MR 5*
K3 Surfaces.
DR A. CORTI M. W. F. 10 *MR 13*

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Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART III (continued)

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS (continued)

MICHAELMAS 2004

Extremal Combinatorics.
DR I. B. LEADER Tu. Th. 10 *MR 3*
Differential Geometry.
DR A. KOVALEV M. W. F. 11 *MR 5*
Category Theory.
DR P. T. JOHNSTONE Tu. Th. S. 11 *MR 5*
Cyclotomic Fields.
PROF. J. H. COATES Tu. Th. S. 11 *MR 13*
Diophantine Analysis and Transcendence Theory.
PROF. A. BAKER W. F. 12 *MR 5*
Dynamical Systems.
DR G. P. PATERNAIN Tu. Th. 12 F. 2 *MR 5*
Some Inequalities.
DR D. J. H. GARLING M. W. F. 12 *MR 12*
Fibre Bundles.
PROF. B. TOTARO M. W. F. 12 *MR 14*
Graphs and Hypergraphs.
DR A. THOMASON Tu. Th. 12 *MR 14*
Set Theory.
DR T. E. FORSTER Tu. Th. S. 9 *MR 9*
Prime Numbers.
DR B. J. GREEN M. W. F. 11 *MR 4*

Courses given by the Statistical Laboratory

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

Statistical Theory.
DR G. A. YOUNG Tu. Th. S. 10 *MR 12*
Advanced Probability.
DR J. R. NORRIS M. W. F. 10 *MR 12*

Information and Coding.
DR O. JOHNSON M. W. 11 *MR 12*

Mathematics of Operational Research.
PROF. R. R. WEBER M. W. F. 12 *MR 2* (Eight lectures and eight classes)

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

LENT 2005

Geometrisation of 3-manifolds.
PROF. C. B. THOMAS Tu. Th. S. 10 *MR 13*
Calculus of Variations.
DR S. DEMOULINI M. W. F. 11 *MR 11*
Elliptic Curves.
PROF. A. J. SCHOLL M. W. F. 11 *MR 5*
Spectral Geometry.
DR D. BARDEN M. W. F. 11 *MR 13*
Morse Theory.
DR J. M. WOOLF Tu. Th. 11 *MR 3*
Probabilistic Combinatorics.
DR O. M. RIORDAN M. W. F. 12 *MR 4*
Rational Homotopy Theory.
DR C. TELEMAN Tu. Th. S. 12 *MR 4*
Ordinary Differential Equations in the Complex Domain.
DR M. MAZZOCCO M. W. F. 12 *MR 13*
Representation Theory of Symmetric Groups.
DR S. MARTIN M. W. F. 12 *MR 12*

Courses given by the Statistical Laboratory

Stochastic Calculus and Applications.
DR J. R. NORRIS AND DR I. ARMENDARIZ M. W. F. 9 *MR 12*
Time Series+.
DR S. PITTS M. W. F. 10 (eight lectures) *MR 12*
Monte Carlo Inference+.
DR S. P. BROOKS AND DR R. DEARDON M. W. F. 10 (sixteen lectures starting 9 Feb.) *MR 12*
Survival Data++.
P. TREASURE Tu. Th. 10 (ten lectures and two classes, starting 25 Jan.) *MR 12*
Quantum Information Theory.
DR N. DATTA AND PROF. Y. M. SUHOV M. W. F. 10 *MR 4*
Large Deviations and Queues.
DR D. J. WISCHIK M. W. 11 *MR 12*
Applied Multivariate Analysis.
DR G. A. YOUNG Tu. Th. 12 *MR 12*
Actuarial Statistics.
DR S. M. PITTS Tu. Th. 11 *MR 12*

Mathematical Models in Financial Management.
PROF. M. A. H. DEMPSTER Th. 4–6 p.m. *Mill Lane Room 7*
Statistics in Medical Practice++.
DR S. BIRD, DR V. FAREWELL AND DR D. SPIEGELHALTER W. 4–6 p.m. (six hours) *MR 12*
Statistical and Population Genetics.
DR D. CLAYTON, DR H. CORDELL AND PROF. S. TAVARÉ M. 4–6 p.m. (sixteen hours) *MR 12*

EASTER 2005

Poisson Processes.
PROF. SIR JOHN KINGMAN Tu. Th. 9 and 11 (sixteen hours) *MR 9*

Applied Statistics. (continued)
DR P. M. E. ALTHAM AND DR B. D. M. TOM Tu. Th. 9 *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

COURSES INTENDED FOR GRADUATES (non-examinable)

Matroids.
DR L. PEBODY Tu. Th. S. 10 *MR 15*
Topics in Complex Analysis.
DR A. F. BEARDON M. W. F. 11 *MR 14*
Iwasawa Theory.
PROF. J. H. COATES M. W. F. 12 *MR 14*
Asymptotic Methods in Stochastic Network Theory.
PROF. A. N. RYBKO Alternate weeks M. Th. 2/Th. 2 *MR2*

Ricci Curvature.
PROF. C. B. THOMAS Tu. Th. 11 *MR 12*