

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.

Part IA students are recommended to attend the induction session which will be held from 9.30 a.m. to 10.45 a.m. on Wednesday 9 October 2013, *in the Cockcroft Lecture Theatre*.

A meeting will be held for all Part IA students on Friday 2 May 2014 at 2.00 p.m. in *Mill Lane Room 3* to discuss examinations and examination techniques.

Note that the non-examinable courses on **Topics in the History of Mathematics** will be of interest to all students reading the Mathematical Tripos. Full details are given below.

MICHAELMAS 2013

LENT 2014

EASTER 2014

PART IA

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

Numbers and Sets

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

Groups

DR R. D. CAMINA
M. W. F. 11

Differential Equations

DR C. P. CAULFIELD
Tu. Th. S. 10

Vectors and Matrices

PROF. P. F. LINDEN
Tu. Th. S. 11

Vector Calculus

PROF. B. ALLANACH
M. W. F. 10

Probability

PROF. R. R. WEBER
M. W. F. 11

Dynamics and Relativity

PROF. D. TONG
Tu. Th. S. 10

Analysis I

PROF. W. T. GOWERS
Tu. Th. S. 11

Optimisation*

DR F. A. FISCHER
M. W. F. 10, *Mill Lane Room 3* (Twelve lectures)

Metric and Topological Spaces*

PROF. T. W. KÖRNER
M. W. F. 11, *Mill Lane Room 3* (Twelve lectures)

Variational Principles*

PROF. N. PEAKE
M. W. F. 12, *Mill Lane Room 3* (Twelve lectures)

Computational Projects*

DR S. J. COWLEY
Tu. Th. 10 (Eight lectures)

Information for non-examinable courses and the Mathematics with Physics option appears below on the next page.

The following courses are non-examinable

Introduction to Mechanics

DR M. B. WINGATE

Tu. Th. 12, *Arts School, Room B, Bene't Street* (Twelve lectures)

History of Mathematical Ideas: Ancient Mathematics

DR P. BURSILL-HALL

W. F. 4, *Centre for Mathematical Sciences, MR3*

History of Science for Mathmos: Middle Ages to the Scientific Revolution

DR P. BURSILL-HALL

Th. 4, *Centre for Mathematical Sciences, MR3*

The following courses are non-examinable

History of Mathematical Ideas: Middle Ages to the Enlightenment

DR P. BURSILL-HALL

W. F. 4, *Centre for Mathematical Sciences, MR3*

History of Science for Mathmos: Middle Ages to the Scientific Revolution (continued)

DR P. BURSILL-HALL

Th. 4, *Centre for Mathematical Sciences, MR3*

The following course is non-examinable

Concepts in Theoretical Physics

DR D. D. BAUMANN

Tu. Th. 11 (Eight lectures)

* Examined in Part IB of the Tripos

Mathematics with Physics Option:

Students taking this third option should attend Vectors and Matrices, Groups, Differential Equations, Analysis I, Vector Calculus and Probability from Part IA of the Mathematical Tripos, together with the lectures listed at

<http://www.timetable.cam.ac.uk/#trios/nst/IA/phy>

in Part IA Physics of the Natural Sciences Tripos. They will be required to do Physics practical work, and should attend at least the first lecture of the Scientific Computing Course.