

## 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

\* Examined in Part IB of the Tripos

*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)

**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/#tripos/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.