

## MATHEMATICAL TRIPOS, PART II

Lectures will be held in the Meeting Rooms (MR) of the Centre for Mathematical Sciences, Clarkson Road, unless otherwise stated.

There will be an induction session for Part II students at 2.00pm on Wednesday 5 October 2022, in the Cockcroft Lecture Theatre.

For a personalised version of the timetable, which you can import into your own electronic calendar, please see <http://www.timetable.cam.ac.uk>.

### C COURSES

#### MICHAELMAS 2022

##### Classical Dynamics

Prof. D. B. Skinner  
M. W. F. 9, *MR9*

##### Cosmology

Prof. J. E. Santos  
M. W. F. 11, *MR4*

##### Number Theory

Prof. T. A. Fisher  
Tu. Th. S. 10, *MR2*

##### Automata and Formal Languages ‡

Prof. B. Löwe  
Tu. Th. S. 11, *MR3*

##### Statistical Modelling

Dr Q. Zhao  
Tu. Th. S. 12, *MR5*

#### LENT 2023

##### Further Complex Methods

Prof. P. H. Haynes  
M. W. F. 9, *MR3*

##### Coding and Cryptography

Prof. S. Martin  
M. W. F. 10, *MR2*

##### Quantum Information and Computation

Prof. N. Datta  
M. W. F. 11, *MR3*

##### Mathematical Biology

Prof. R. E. Goldstein  
Tu. Th. S. 11, *MR2*

##### Topics in Analysis

Prof. T. W. Korner  
Tu. Th. S. 12, *MR4*

#### EASTER 2023

D COURSES

MICHAELMAS 2022

**Algebraic Topology**

Prof. J. Rasmussen

M. W. F. 9, *MR3*

**Principles of Statistics**

Prof. P.-L. Loh

M. W. F. 9, *MR5*

**Probability and Measure**

Prof. R. Nickl

M. W. F. 10, *MR3*

**Fluid Dynamics ‡**

Prof. E. Lauga

M. W. F. 10, *MR4*

**Graph Theory ‡**

Dr J. Sahasrabudhe

M. W. F. 11, *MR2*

**Stochastic Financial Models**

Dr M. R. Tehranchi

M. W. F. 11, *MR9*

**Principles of Quantum Mechanics**

Prof. E. Pajer

M. W. F. 12, *MR2*

**Linear Analysis**

Prof. C. Mouhot

M. W. F. 12, *MR3*

LENT 2023

**Differential Geometry**

Prof. M. Dafermos

M. W. F. 9, *MR4*

**Applications of Quantum Mechanics**

Prof. N. Dorey

M. W. F. 10, *MR9*

**Logic and Set Theory ‡**

Prof. I. B. Leader

M. W. F. 11, *MR2*

**General Relativity**

Dr A. Wall

M. W. F. 12, *MR3*

**Algebraic Geometry**

Dr D. Ranganathan

M. W. F. 12, *MR4*

**Applied Probability**

Dr S. Sarkar

M. W. F. 12, *MR9*

**Riemann Surfaces**

Prof. H. Wilton

Tu. Th. 9, *MR3*

**Waves**

Prof. C. P. Caulfield

Tu. Th. S. 9, *MR4*

EASTER 2023

**Representation Theory**

Dr S. J. Wadsley  
Tu. Th. S. 9, *MR2*

**Numerical Analysis**

Prof. H. Fawzi  
Tu. Th. S. 9, *MR4*

**Electrodynamics**

Dr R. Adhikari  
Tu. Th. 10, *MR4*

**Asymptotic Methods**

Prof. E. S. Titi  
Tu. Th. 11, *MR4*

**Dynamical Systems ‡**

Prof. R. R. Kerswell  
Tu. Th. S. 12, *MR3*

**Galois Theory**

Prof. A. J. Scholl  
Tu. Th. S. 12, *MR9*

**Statistical Physics**

Prof. C. E. Thomas  
Tu. Th. S. 10, *MR2*

**Analysis of Functions**

Prof. R. Bauerschmidt  
T. Th. S. 10, *MR4*

**Number Fields**

Prof. I. Grojnowski  
Tu. Th. 11, *MR3*

**Mathematics of Machine Learning**

Prof. R. Shah  
Tu. Th. 12, *MR2*

**Integrable Systems**

Prof. D. M. A. Stuart  
Tu. Th. 12, *MR5*

‡ Recordings for these lectures will only be available in exceptional circumstances.

The following courses, proposed by the Board of the Faculty of Mathematics, are non-examinable.

**Laboratory Demonstrations in Fluid Dynamics**

Prof. S. Dalziel  
M. Tu. W. 2-3.30 every second week,  
*Fluids Laboratory*