

MATHEMATICAL TRIPOS, PART III

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

All Part III and PhD students in the Faculty are able to self-enrol on Part III Moodle courses; they will be sent instructions on how to do so. All other members of the University wishing to access these courses are requested to complete the [relevant form in the Part III Guide to Courses](#).

There will be a meeting on the morning of Wednesday 8 October for those intending to offer courses in Part III. Students should refer to the [Notes for New Part III Students](#) for further details.

There is a series of meetings for Part III students on Wednesdays at 4.15pm. Students are invited to refer to the [Part III Handbook](#) for more details.

Please note that recordings can take some time to process following the end of the lecture (up to several hours). This is due to the way Panopto stores and manages recordings, and it cannot be expedited.

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

Michaelmas 2025

Cosmology

Prof. E. Pajer
M. W. F. 9, MR2

Category Theory

Prof. P. T. Johnstone
M. W. F. 9, MR4

Lent 2026

Stochastic Calculus with Applications to Finance

Dr M. Tehranchi
M. W. F. 9, MR3

Supersymmetry ‡

Prof. B. Allanach
M. F. 9, MR5

Easter 2026

Gauge/Gravity Duality

Prof. J. Santos
M. Tu. Th. F. 10, MR3

Applications of Quantum Field Theory

Prof. S. A. Hartnoll
M. Tu. Th. F. 11, MR3

Analysis of Partial Differential Equations

Dr G. Ageno

M. W. F. 9, *MR5*

First lecture on Wednesday 15 October

Additional lectures on 23 October, 1:30pm, *MR4* and

5 November, 1:30pm, *MR2*

Probabilistic Combinatorics

Prof. J. Sahasrabudhe

M. W. F. 9, *MR13*

Symmetries, Fields and Particles

Prof. M. Wingate

M. W. F. 10, *MR2*

Algebraic Geometry

Prof. M. Gross

M. W. F. 10, *MR5*

Structure and Evolution of Stars

Prof. C. A. Tout

M. W. F. 10, *MR11*

Biological Physics

Prof. R. E. Goldstein

M. W. F. 10, *MR12*

Gaussian Processes and Measures ‡

Prof. R. Nickl

M. W. 10, *MR13*

First lecture on Friday 10 October

Complex Manifolds

Dr M. Jeffs

M. W. F. 9, *MR9*

Fluid Dynamics of the Solid Earth

Dr J. Neufeld, Dr N. Shibley

M. W. F. 9, *MR12*

Mon. 9 and Wed. 11 February lectures in MR15

Spectral Computations in Infinite Dimensions

Dr M. Colbrook

M. W. 9, *MR13*

Additional lecture on Thu. 19 March in MR14

Black Holes

Dr A. Wall

M. W. F. 10, *MR2*

Logic and Computability ‡

Dr J. Siqueira

M. W. F. 10, *MR5*

Knots and Knot Concordances

Dr S. Kang

M. W. F. 10, *MR9*

Quantum Entanglement in Many-body Physics

Prof. F. Verstraete

M. W. 10, *MR11*

Gravitational Waves and Numerical Relativity

Prof. U Sperhake

M. Tu. Th. F. 12, *MR3*

Quantum Field Theory

Dr A. Castro
M. W. F. 11, MR2

Analytic Number Theory

Dr J. Teräväinen
M. W. F. 11, MR5

Information Theory

Prof. I. Kontoyiannis
M. W. 11, MR9

Planetary System Dynamics

Prof. M. Wyatt
M. W. F. 11, MR11

Non-Newtonian Fluid Mechanics ‡

Dr D. Hewitt, Dr K. Warburton
M. W. F. 11, MR12

Introduction to Nonlinear Analysis ‡

Prof. P. Raphael
M. W. F. 11, MR14

Modern Statistical Methods

Prof. R. Shah
M. W. F. 12, MR5

Commutative Algebra

Dr N. Williams
M. W. F. 12, MR9

Slow Viscous Flow §

Prof. J. Lister
M. W. F. 10, MR12
Wed. 11 February lecture in MR15

Diophantine Analysis

Prof. P. Varjú
M. W. F. 10, MR13

Non-Commutative Noetherian Rings

Dr S. Wadsley
M. W. F. 10, MR14

Elliptic Curves

Dr A. Morgan
M. W. F. 11, MR3

Field Theory in Cosmology

Prof. E. P. S. Shellard, Prof. B. Sherwin
M. W. F. 11, MR4

Astrostatistics

Prof. K. Mandel
M. W. F. 11, MR9

Noisy Mechanics

Dr R. Adhikari, Prof. M. Cates
M. W. F. 11, MR12
Mon. 9 February lecture in MR14 and Wed. 11
February lecture in MR15

Advanced Quantum Field Theory

Dr R. A. Reid-Edwards
M. W. F. 12, MR2

Formation of Galaxies

Prof. N. W. Evans
M. W. F. 12, MR11

Fluid Dynamics of Climate

Prof. P. Haynes, Dr A. Ming, Prof. J. R. Taylor
M. W. F. 12, MR12

Random Discrete Structures

Prof. P. Sousi
M. W. 12, MR13

Advanced Probability

Prof. J. R. Norris
Tu. Th. S. 9, MR3

Quantum Information Theory

Dr A. Capel Cuevas
Tu. Th. 9, MR5

Algebraic Topology

Prof. O. Randal-Williams
Tu. Th. S. 9, MR9

Perturbation Methods*

Dr L. Ayton
Tu. 9, MR12 and W. 1:30, MR9
Additional lecture on Thu 30 October, 9am in MR12
No lecture on Wed 26 November.

Statistical Field Theory

Prof. H. S. Reall
Tu. Th. 10, MR2

Statistical Learning in Practice

Dr W. Underwood
M. W. F. 12, MR5
No lecture on Fri. 23 January
Additional lecture on Fri. 20 March

Extrasolar Planets: Atmospheres and Interiors ‡

Prof. N. Madhusudhan
M. W. F. 12, MR12
Mon. 9 and Wed. 11 February lectures in MR15

Elliptic Partial Differential Equations ‡

Dr A. Guerra, Dr G. Orriols
M. W. F. 12, MR13

Geometric Group Theory

Prof. H. Wilton
M. W. F. 12, MR14

String Theory ‡

Prof. N. Dorey
Tu. Th. S. 9, MR2

Ramsey Theory §

Prof. I. Leader
Tu. Th. 9, MR3

Biological Flows §

Prof. E. Lauga
Tu. Th. 9, MR4

Toric Geometry

Dr V. Arena
Tu. Th. S. 10, MR4
Sat. 14 February lecture in MR3

Topics in Statistical Theory

Prof. R. Samworth
Tu. Th. 10, *MR4*

Lie Algebras and Their Representations

Prof. I. Grojnowski
Tu. Th. S. 10, *MR5*

Forcing and the Continuum Hypothesis §

Prof. B. Loewe
Tu. Th. 10, *MR11*
Additional lecture on Sat. 15 November, 10am *MR4*

Mixing Times of Markov Chains

Dr A. Sarkovic
Tu. Th. 10, *MR13*

Differential Geometry

Dr Y. Li
Tu. Th. S. 11, *MR3*

Algebraic Methods in Combinatorics

M. Boase
Tu. Th. 11, *MR5*

Mathematical Analysis of the Incompressible Navier-Stokes Equations

Prof. E. Titi
Tu. Th. S. 11, *MR9*

Topological Quantum Matter

Prof. B. Béri
Tu. Th. 10, *MR5*

Concentration Inequalities

Dr V. Jog
Tu. Th. 10, *MR9*
Additional Lecture on Thu. 19 March

Statistics in Medicine (Modules D, E, F: Analysis of Survival Data) †

Dr P. Treasure
Tu. Th. 10, *MR11* (twelve lectures)
No lecture on Tue. 2 February, additional lectures on Thu. 5 March and Tue. 10 March

Astrophysical Black Holes

Dr D. Sijacki
Tu. Th. 10, *MR14*

Distribution Theory and Applications §

Prof. A. Ashton
Tu. Th. 11, *MR4*

Solitons, Instantons and Geometry ‡

Prof. M. Dunajski
Tu. Th. 11, *MR5*
No lectures on Tue. 27 and Thu. 29 January
Additional lectures on Sat. 14 February and Thu. 19 March

Random Walks and Phase Transitions

Prof. P. Rodriguez
Tu. Th. S. 11, *MR9* (sixteen lectures)

Astrophysical Fluid Dynamics

Prof. G. I. Ogilvie
Tu. Th. S. 11, *MR12*

Quantum Information, Foundations and Gravity

Prof. A. Kent
Tu. Th. 11, *MR13*

General Relativity

Prof. D. Skinner
Tu. Th. S. 12, *MR2*

Functional Analysis §

Dr A. Zsák
Tu. Th. S. 12, *MR4*

Local Fields

Prof. T. Fisher
Tu. Th. 12, *MR5*

Statistics in Medicine

(Modules A, B, C: Statistics in Medical Practice) +
Dr C. Jackson and colleagues
Tu. Th. 12, *MR11* (twelve lectures)

Model Theory †

Dr C. Kestner
Tu. S. 11, *MR13*
No lectures on Sat. 14 and Tue. 17 March
Additional lectures on Thu. 22 January and Thu. 5
February. Tue. 10 March lecture rescheduled to
Thu. 19 February.

Dynamics of Astrophysical Discs

Prof. H. Latter
Tu. Th. 11, *MR14*
No lecture on Tue. 17 February
Additional lecture on Thu. 19 March

The Standard Model

Prof. D. Tong
Tu. Th. S. 12, *MR2*

Analysis of Boolean Functions

Prof. W. T. Gowers
Tu. Th. 12, *MR5*

Coxeter Groups

Dr A. Jones
Tu. Th. S. 12, *MR12*
Tue. 10 February lecture in *MR15*

Riemannian Geometry

Prof. A. G. Kovalev
Tu. Th. S. 12, *MR13*

Robust Statistics

Prof. P-L. Loh
Tu. Th. 12, *MR14*

Laboratory Demonstrations in Fluid Dynamics

Dr M. Jalaal, Dr Q. Kriaa

W. 2-3:30, *Fluids Laboratory*

+ These two courses constitute the 24-lecture course in Statistics in Medicine. For examination purposes, Statistics in Medicine is considered a Michaelmas term course.

* The examination for Perturbation Methods will be scheduled at the same time as the lecture courses at Tu. Th. S. 9.

‡ Recordings for this course will only be made available as a reasonable adjustment for students with a recommendation for access to recordings. Students with such a recommendation in their Student Support Document (SSD) who have not automatically been granted access to the recordings should contact the Undergraduate Office at undergrad-office@maths.cam.ac.uk. Students who require access to recordings as a reasonable adjustment, but who do not yet have a SSD, should consult their College Tutor (see also paragraph 3 of the [Faculty's Statement on the Recording of Teaching Sessions](#)).

§ There will be no recordings available for this course; the lecturer will make alternative accommodations for students with recommendations for reasonable adjustments that include access to recordings. Students with such a recommendation in their Student Support Document (SSD) who have not automatically been notified of the alternative accommodations should contact the Undergraduate Office. Students who require access to recordings as a reasonable adjustment, but who do not yet have a SSD, should consult their College Tutor (see also paragraph 3 of the [Faculty's Statement on the Recording of Teaching Sessions](#)).