

MATHEMATICAL TRIPOS PART III

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

Lectures held in Meeting Rooms 2, 3, 4, 5, 9 and 13 will be live-streamed. The live-stream can be accessed via the Panopto block on the corresponding lecture course Moodle.

Lecture courses marked * will be delivered remotely on Zoom until further notice. Students may use the meeting room indicated to 'attend' these lectures remotely in real time on their own device, subject to occupancy limits.

All Part III and PhD students in the Faculty are able to self-enrol on Part III Moodle courses. All other members of the University wishing to access these courses are requested to contact partiii-secretary@maths.cam.ac.uk.

There will be a meeting on the morning of Wednesday 6 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.

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 2021

Quantum Information Theory

DR N. DATTA
M. W. F. 9, *MR4*

Introduction to Non-Linear Analysis

PROF. P. RAPHAEL
M. W. F. 9, *MR5*

Category Theory

PROF. P. T. JOHNSTONE
M. W. F. 9, *MR9*

Formation of Galaxies*

PROF. N. W. EVANS
M. W. F. 9, *MR11*

LENT 2022

String Theory

DR D. SKINNER
M. W. F. 9, *MR2*

Infinite Groups

DR H. BRADFORD
M. W. F. 9, *MR5*

Quantum Computation

DR S. STRELCHUK
M. W. F. 9, *MR9*

Functional Data Analysis

PROF. J. A. D. ASTON
M. W. 9, *MR12*

EASTER 2022

Gauge/Gravity Duality

DR A. C. WALL
M. Tu. Th. F. 10, *MR3*

Biological Physics and Fluid Dynamics
PROF. R. GOLDSTEIN, PROF. E. LAUGA
M. W. F. 9, *MR13*

Mixing Times of Markov Chains
A. PREVOST
M. W. F. 9, *MR14*

Cosmology
DR B. D. SHERWIN
M. W. F. 10, *MR2*

Algebraic Geometry
DR D. RANGANATHAN
M. W. F. 10, *MR5*

Advanced Probability
PROF. J. R. NORRIS
M. W. F. 10, *MR9*

Slow Viscous Flow
PROF. J. R. LISTER
M. W. F. 10, *MR12*

Symmetries, Particles and Fields
PROF. B. ALLANACH
M. W. F. 11, *MR2*

Unbounded Operators and Semigroups
DR D. M. A. STUART
M. W. F. 11, *MR4*

Algebraic Topology
O. RANDAL-WILLIAMS
M. W. F. 11, *MR5*

Structure and Evolution of Stars
DR A. N. ZYTKOW
M. W. F. 11, *MR11*

Fluid Dynamics of Climate
PROF. P. HAYNES
M. W. F. 11, *MR12*

Perturbation Methods
PROF. N. PEAKE
M. W. F. 9, *MR13*

Black Holes
DR J. SANTOS
M. W. F. 10, *MR3*

Elliptics Curves
DR T. FISHER
M. W. F. 10, *MR4*

Advanced Financial Models
DR M. TEHRANCHI
M. W. F. 10, *MR5*

Computability and Logic*
DR J. V. SIQUEIRA
M. W. F. 10, *MR12*

Fluid Dynamics of the Solid Earth
DR J. NEUFELD, PROF. G. WORSTER
M. W. F. 10, *MR13*

Topics in Convex Optimisation
DR H. FAWZI
M. W. F. 10, *MR14*

Modular Forms
PROF. J. THORNE
M. W. F. 11, *MR4*

Stochastic Calculus and Applications
DR S. SARKAR
M. W. F. 11, *MR5*

Solitons, Instantons and Geometry
DR M. DUNAJSKI
M. W. F. 11, *MR9*

Fluid Dynamics of the Environment
DR S. DALZIEL
M. W. F. 11, *MR12*

General Relativity

PROF. H. REALL

M. W. F. 12, *MR2***Modern Statistical Methods**

DR R. SHAH

M. W. F. 12, *MR4***Functional Analysis**

DR A. ZSAK

M. W. F. 12, *MR5***Mapping Class Groups**

DR H. WILTON

M. W. 12, *MR12***Astrophysical Fluid Dynamics**

DR R. RAFIKOV

M. W. F. 12, *MR13***Commutative Algebra***

PROF. M. GROSS

Tu. Th. S. 9, *MR4***Topics in Statistical Theory**

PROF. R. J. SAMWORTH

Tu. Th. 9, *MR5***Five Ways to Think about Primes**

DR A. WALKER

Tu. Th. S. 9, *MR9***Theoretical Physics of Soft Condensed Matter**

PROF. M. CATES

Tu. Th. 9, *MR12***Statistical Field Theory**

DR C. THOMAS

Tu. Th. 10, *MR3***Percolation and Related topics**

DR D. YEO

Tu. Th. 10, *MR5***Extrasolar Planets: Atmospheres and Interiors**

DR N. MADHUSUDHAN

M. W. F. 11, *MR13***Large Cardinals**

PROF. B. LÖWE

M. W. 11, *MR14***Supersymmetry**

PROF. D. TONG

M. W. F. 12, *MR3***Astrostatistics**

DR K. MANDEL

M. W. F. 12, *MR5***Field Theory in Cosmology**

PROF. E. P. SHELLARD, DR S. MELVILLE

M. W. F. 12, *MR11***Representation Theory of Symmetric Groups**

DR S. LAW

M. W. F. 12, *MR12***Toric Geometry**

DR N. NABIJOU

M. W. F. 12, *MR13***Elliptic Partial Differential Equations***

PROF. N. WICKRAMASEKERA

M. W. F. 12, *MR14***Inverse Problems**

DR M. SABATÉ LANDMAN

Tu. Th. 9, *MR4***Coxeter Groups**

DR R. BOYD

Tu. Th. 9, *MR5***Robust Statistics***

DR P.-L. LOH

Tu. Th. 9, *MR9*

Finite Dimensional Lie and Associative Algebras

DR C. J. B. BROOKES

Tu. Th. S. 10, *MR9***Statistics in Medical Practice +**

DR C. JACKSON AND COLLEAGUES

Tu. Th. 10, *MR14* (Twelve lectures)**Analysis of Partial Differential Equations**

DR Z. WYATT

Tu. Th. S. 10, *MR13***Causal Inference**

DR Q. ZHAO

Tu. Th. 11, *MR5***Differential Geometry**

DR J. SMITH

Tu. Th. S. 11, *MR9*,**Distribution Theory and Applications**

DR A. ASHTON

Tu. Th. 11, *MR13***Quantum Field Theory**

PROF. N. DOREY

Tu. Th. S. 12, *MR2***Combinatorics**

PROF. I. LEADER

Tu. Th. 12, *MR3***Symplectic Geometry**

PROF. G. PATERNAIN

Tu. Th. 12, *MR9***Concentration Inequalities***

DR V. JOG

Tu. Th. 12, *MR11***Local Fields**

DR R. ZHOU

Tu. Th. S. 12, *MR12***Introduction to Additive Combinatorics***

PROF. W. T. GOWERS

Tu. Th. 9, *MR12***Modern Stellar Dynamics**

DR E. VASILIEV

Tu. Th. 9, *MR13***The Standard Model**

PROF. F. QUEVEDO

Tu. Th. S. 10, *MR2***Complex Manifolds**

DR A. KOVALEV

Tu. Th. S. 10, *MR5***Statistical Learning in Practice**

DR R. ALTMAYER

Tu. Th. S. 10, *MR9 12+12***Stochastic Processes in Theoretical Physics**

DR R. ADHIKARI, DR M. BRUNA

Tu. Th. 10, *MR12***Schramm-Loewner Evolutions**

DR L. SCHOUG

Tu. Th. 10, *MR13***Astrophysical Black Holes**

DR D. SIJACKI

Tu. Th. 10, *MR14***Numerical Solution of Differential Equations**

PROF. A. ISERLES

Tu. Th. S. 11, *MR3***Quantum Information, Foundations and Gravity**

PROF. A. KENT

Tu. Th. 11, *MR5***Analysis of Survival Data+**

DR P. TREASURE

Tu. Th. 11, *MR9 (TWELVE LECTURES)*

Approximation Theory

DR A. SHADRIN

Tu. Th. S. 12, *MR13***Binary Stars**

PROF. C. TOUT

Tu. Th. 11, *MR14***Advanced Quantum Field Theory**

DR M. WINGATE

Tu. Th. S. 12, *MR2***Information Theory**

PROF. I. KONTOYIANNIS

Tu. Th. 12, *MR9***Knots**

PROF. J. RASMUSSEN

Tu. Th. S. 12, *MR13***Dynamics of Astrophysical Discs**

DR H. LATTER

Tu. Th. 12, *MR14***Laboratory Demonstrations in Fluid Dynamics**

DR J. NEUFELD, DR S. DALZIEL

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 Lent term course.