

MATHEMATICAL TRIPOS PART III

There will be a meeting on Wednesday 7 October 2020 at 9.30 a.m. for all those who intend to offer courses in Part III.

There is a series of meetings for Part III students on Wednesdays at 4.15 p.m. 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>.

All Michaelmas term lectures will be delivered remotely. Those marked * will be live-streamed at the advertised time. Recordings of all lectures will be available, at the latest, on the scheduled day of the lecture. All Part III and PhD students in the Faculty are able to self-enrol in these courses. All other members of the University wishing to access these courses are requested to contact partiii-secretary@maths.cam.ac.uk.

MICHAELMAS 2020

Category Theory*

PROF. P. T. JOHNSTONE
M. W. F. 9

Cosmology

DR B. D. SHERWIN
M. W. F. 9

Local Fields

DR R. ZHOU
M. W. F. 9

Mixing Times of Markov Chains

DR P. SOUSI
M. W. 9

Advanced Probability

PROF. J. NORRIS
M. W. F. 10

Algebraic Geometry*

PROF. M. GROSS
M. W. F. 10

Formation of Galaxies

PROF. N. W. EVANS
M. W. F. 10

Slow Viscous Flow

PROF. J. R. LISTER
M. W. F. 10

LENT 2021

Black Holes

DR J. E. SANTOS
M. W. F. 9

Fluid Dynamics of the Environment

PROF. S. DALZIEL
M. W. F. 9

Metric Embeddings

DR A. ZSÁK
M. W. F. 9

The Life and Death of Galaxies

PROF. V. A. BELOKUROV
M. W. F. 9

Astrophysical Fluid Dynamics

PROF. G. I. OGILVIE
M. W. F. 10

Field Theory in Cosmology

DR T. BALDAUF, DR E. PAJER
M. W. F. 10

Quantum Information Theory

DR S. STRELCHUK
M. W. F. 10

Random Planar Geometry

PROF. J. MILLER
M. W. 10

EASTER 2021

Gauge/Gravity Duality

DR A. WALL
M. Tu. Th. F. 10

Classical and Quantum Solitons

PROF. N. S. MANTON
M. Tu. Th. F. 11

Algebraic Topology

PROF. I. SMITH
M. W. F. 11

Fluid Dynamics of Climate*

PROF. P. H. HAYNES, DR J. R. TAYLOR
M. W. F. 11

Percolation and Related Topics

PROF. G. R. GRIMMETT
M. W. 11

Structure and Evolution of Stars

DR A. N. ZYTKOW
M. W. F. 11

Symmetries, Fields and Particles

PROF. B. ALLANACH
M. W. F. 11

Elliptic Curves

DR T. A. FISHER
M. W. F. 12

General Relativity

PROF. H. S. REALL
M. W. F. 12

Introduction to Non-Linear Analysis

PROF. P. RAPHAEL
M. W. F. 12

Model Theory*

DR G. CONANT
M. W. F. 12

Modern Statistical Methods

DR S. BACALLADO
M. W. F. 12

Planetary System Dynamics

PROF. M. WYATT
M. W. F. 12

Commutative Algebra

DR S. MARTIN
Tu. Th. S. 9

Statistical Learning in Practice

DR A. J. COCA
M. W. F. 10

Astrophysical Black Holes

DR D. SIJACKI
M. W. 11

Hydrodynamic Stability

PROF. R. R. KERSWELL
M. W. 11

Infinite Games

PROF. B. LÖWE
M. W. F. 11

Modular Forms

PROF. J. A. THORNE
M. W. F. 11

Stochastic Calculus and Applications

DR M. TEHRANCHI
M. W. F. 11

The Standard Model

PROF. F. QUEVEDO
M. W. F. 11

Astrostatistics

DR K. MANDEL
M. W. F. 12

Homotopy Theory

DR O. RANDAL-WILLIAMS
M. W. F. 12

String Theory

DR R. REID-EDWARDS
M. W. F. 12

Theoretical Physics of Soft Condensed Matter*

DR R. ADHIKARI, PROF. M. E. CATES, DR R. L.
JACK
M. W. F. 12

Profinite Groups and Group Cohomology*

DR G. WILKES
Tu. Th. S. 9

Differential Geometry

DR J. SMITH
Tu. Th. S. 9

Quantum Computation*

PROF. R. JOZSA
Tu. Th. 9

Topics in Statistical Theory

PROF. R. SAMWORTH
Tu. Th. 9

Distribution Theory and Applications

DR A. ASHTON
Tu. Th. 10

Extrasolar Planets

DR N. MADHUSUDHAN
Tu. Th. S. 10

Finite Dimensional Lie and Associative Algebras

DR C. J. B. BROOKES
Tu. Th. S. 10

Causal Inference

DR Q. ZHAO
Tu. Th. 11

Complex Dynamics

DR H. KRIEGER
Tu. Th. 11

Inverse Problems

DR Y. KOROLEV, DR J. LATZ
Tu. Th. S. 11

Non-Newtonian Fluid Mechanics

PROF. E. LAUGA
Tu. Th. 11

Statistical Field Theory

DR C. E. THOMAS
Tu. Th. 11

Ramsey Theory*

PROF. I. LEADER
Tu. Th. 9

Robust Statistics

DR P-L. LOH
Tu. Th. 9

Symplectic Topology*

DR A. KEATING
Tu. Th. 9

Additive Combinatorics

DR T. BLOOM
Tu. Th. S. 10

Advanced Quantum Field Theory

DR M. B. WINGATE
Tu. Th. S. 10

Algebraic Surfaces*

DR D. RANGANATHAN
Tu. Th. S. 10

Fluid Dynamics of the Solid Earth

DR J. NEUFELD
Tu. Th. 10

Functional Data Analysis

PROF. J. ASTON
Tu. Th. 10

Analysis of Survival Data* +

DR P. TREASURE
Tu. Th. 11 (Twelve lectures)
Starting Th. Jan 28th

Binary Stars

PROF. C. A. TOUT
Tu. Th. 11

Mapping Class Groups

DR H. WILTON
Tu. Th. 11

Statistics in Medical Practice +
DR C. JACKSON AND COLLEAGUES
Tu. Th. 11 (Twelve lectures)

Topics in Combinatorics
PROF. W. T. GOWERS
Tu. Th. 11

Perturbation Methods
DR S. J. COWLEY
Tu. Th. 12

Quantum Field Theory
PROF. N. DOREY
Tu. Th. S. 12

Numerical Solution of Differential Equations*

PROF. A. ISERLES
Tu. Th. S. 11

Representation Theory of Symmetric Groups
DR S. W. C. LAW
Tu. Th. S. 11

Supersymmetry
DR D. B. SKINNER
Tu. Th. 11

Algebraic Number Theory*

PROF. A. J. SCHOLL
Tu. Th. S. 12

Analysis of Partial Differential Equations
PROF. E. TITI
Tu. Th. S. 12

Applications of Differential Geometry to Physics
DR M. DUNAJSKI
Tu. Th. 12

Dynamics of Astrophysical Discs
DR H. LATTER
Tu. Th. 12

Information Theory
DR I. KONTOYIANNIS
Tu. Th. 12

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