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	LENT 2021	EASTER 2021
Category Theory* PROF. P. T. JOHNSTONE M. W. F. 9	**Black Holes** DR J. E. SANTOS M. W. F. 9	**Gauge/Gravity Duality** DR A. WALL M. Tu. Th. F. 10
Cosmology DR B. D. SHERWIN M. W. F. 9	**Fluid Dynamics of the Environment** PROF. S. DALZIEL M. W. F. 9	**Classical and Quantum Solitons** PROF. N. S. MANTON M. Tu. Th. F. 11
Local Fields DR R. ZHOU M. W. F. 9	**Metric Embeddings** DR A. ZSÁK M. W. F. 9	
Mixing Times of Markov Chains DR P. SOUSI M. W. 9	**The Life and Death of Galaxies*** PROF. V. A. BELOKUROV M. W. F. 9	
Advanced Probability PROF. J. NORRIS M. W. F. 10	**Astrophysical Fluid Dynamics** PROF. G. I. OGILVIE M. W. F. 10	
Algebraic Geometry* PROF. M. GROSS M. W. F. 10	**Field Theory in Cosmology** DR T. BALDAUF, DR E. PAJER M. W. F. 10	
Formation of Galaxies PROF. N. W. EVANS M. W. F. 10	**Quantum Information Theory** DR S. STRELCHUK M. W. F. 10	
Slow Viscous Flow PROF. J. R. LISTER M. W. F. 10	**Random Planar Geometry** PROF. J. MILLER M. W. 10	

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

Statistical Learning in Practice
DR A. J. COCA
M. W. F. 10

Fluid Dynamics of Climate*
PROF. P. H. HAYNES, DR J. R. TAYLOR
M. W. F. 11

Astrophysical Black Holes
DR D. SIJACKI
M. W. 11

Percolation and Related Topics
PROF. G. R. GRIMMETT
M. W. 11

Hydrodynamic Stability
PROF. R. R. KERSWELL
M. W. 11

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

Infinite Games*
PROF. B. LÖWE
M. W. F. 11

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

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

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

Stochastic Calculus and Applications
DR M. TEHRANCHI
M. W. F. 11

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

The Standard Model
PROF. F. QUEVEDO
M. W. F. 11

Introduction to Non-Linear Analysis
PROF. P. RAPHAEL
M. W. F. 12

Astrostatistics
DR K. MANDEL
M. W. F. 12

Model Theory*
DR G. CONANT
M. W. F. 12

Homotopy Theory*
DR O. RANDAL-WILLIAMS
M. W. F. 12

Modern Statistical Methods
DR S. BACALLADO
M. W. F. 12

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

Planetary System Dynamics
PROF. M. WYATT
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

Commutative Algebra
DR S. MARTIN
Tu. Th. S. 9

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.