Last update 19 Aug. 19

MATHEMATICAL TRIPOS PART III

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

There will be a meeting in *MR2* on Wednesday 3 October 2018 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 in MR2, Centre for Mathematical Sciences 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.

MICHAELMAS 2018

General Relativity
PROF. M. J. PERRY
M. W. F. 9, *MR2*

Bayesian Modelling and Computation
DR S. BACALLADO
M. W. F. 9, *MR5*

Lie Algebras and their Representations
DR B. ROMANO
M. W. F. 9, *MR9*

Galaxy Formation
PROF. N. W. EVANS
W. F. 9, *MR13*

Slow Viscous Flow
PROF. J. R. LISTER
M. W. F. 9, *MR14*

Statistical Field Theory
PROF. D. TONG
M. W. F. 10, *MR3* (Sixteen lectures)

Introduction to Geometric Group Theory
DR A. KHUKHRO
W. F. 10, *MR13*

Category Theory
PROF. P. T. JOHNSTONE
M. W. F. 10, *MR9*

LENT 2019

The Standard Model
DR C. E. THOMAS
M. W. F. 9, *MR3*

Modular Representation Theory
DR S. MARTIN
M. W. F. 9, *MR4*

Stochastic Calculus and Applications
DR R. BAUERSCHMIDT
M. W. F. 9, *MR5*

Fluid Dynamics of the Solid Earth
DR J. A. NEUFELD, PROF. M. G. WORSTER
M. W. F. 9, *MR13*

Advanced Cosmology
PROF. A. D. CHALLINOR, DR T. BALDAUF
M. W. F. 10, *MR4*

Quantum Information Theory
DR N. DATTA
M. W. F. 10, *MR5*

Statistical Learning in Practice
DR A. J. COCA
M. W. F. 10, *MR9* (Twelve lectures) and *CATAM Room* (Twelve practicals)

Iwasawa Algebras
DR S. J. WADSLEY
M. W. F. 10, *MR12*

EASTER 2019

Classical and Quantum Solitons
PROF. N. S. MANTON
M. Tu. Th. F. 11, *MR3*

Planetary System Dynamics
PROF. M. C. WYATT
M. W. F. 10, *MR11*

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

Fluid Dynamics of the Environment
PROF. S. B. DALZIEL
M. W. F. 10, *MR14*

Algebraic Topology
PROF. I. SMITH
M. W. F. 11, *MR5*

Advanced Probability
PROF. J. R. NORRIS, DR W. QIAN
M. W. F. 11, *MR9*

Astrophysical Fluid Dynamics
DR R. RAFIKOV
M. W. F. 11, *MR14*

Cosmology
DR E. PAJER, DR B. D. SHERWIN
M. W. F. 12, *MR2*

Analysis of Partial Differential Equations
DR C. WARNICK
M. W. F. 12, *MR14*

Hydrodynamic Stability
PROF. C. P. CAULFIELD, PROF. R. R. KERSWELL
M. W. F. 12, *MR11*

Model Theory
DR S. BARBINA
W. F. 12, *MR12*

Algebraic Number Theory
PROF. I. GROJNOWSKI
M. W. F. 12, *MR13*

Modern Statistical Methods
DR R. D. SHAH
M. W. F. 12, *MR5*

Fluid Dynamics of Climate
PROF. P. H. HAYNES, DR J. R. TAYLOR
M. W. F. 10, *MR13*

3-Manifolds
DR S. RASMUSSEN
M. W. F. 10, *MR14*

String Theory
DR R. REID-EDWARDS
M. W. F. 11, *MR2*

Astrophysical Black Holes
DR D. SIJACKI
M. W. 11, *MR5*

Topics in Set Theory
PROF. B. LÖWE
M. W. F. 11, *MR13*

Topics in Statistical Theory
PROF. R. NICKL
M. W. 11, *MR14* (First lecture on Friday 18 Jan)

Black Holes
DR J. E. SANTOS
M. W. F. 12, *MR3*

Symplectic Topology
DR A. KEATING
M. W. F. 12, *MR5*

Theoretical Physics of Soft Condensed Matter
PROF. M. E. CATES
M. W. F. 12, *MR12* (Sixteen lectures)

Astrostatistics
DR K. MANDEL
M. W. F. 12, *MR13*

Introduction to Optimal Transport
DR M. THORPE
M. W. F. 12, *MR14*

Schramm-Loewner Evolutions
DR J. MILLER
Tu. Th. 9, *MR4*

Combinatorics
PROF. I. B. LEADER
Tu. Th. 9, *MR3*

Topics in Convex Optimisation
DR H. FAWZI
Tu. Th. 9, *MR5*

Elliptic Curves
DR T. A. FISHER
Tu. Th. S. 9, *MR9*

Symmetries, Fields and Particles
PROF. N. DOREY
Tu. Th. S. 10, *MR2*

Introduction to Discrete Analysis
PROF. W. T. GOWERS
Tu. Th. 10, *MR5*

Algebraic Geometry
PROF. M. GROSS
Tu. Th. S. 10, *MR9*

Distribution Theory and Applications
DR A. ASHTON
Tu. Th. 10, *MR12*

Extrasolar Planets
DR N. MADHUSUDHAN
Tu. Th. S. 10, *MR13*

Algebra
DR C. J. B. BROOKES
Tu. Th. S. 11, *MR3*

Quantum Computation
PROF. R. JOZSA
Tu. Th. 11, *MR4*

Boundary Value Problems for Linear PDEs
DR K. KALIMERIS
Tu. Th. 11, *MR5*

Active Biological Fluids
PROF. E. LAUGA
Tu. Th. 9, *MR12*

Evolution of Galaxies
DR V. BELOKUROV
Tu. Th. 9, *MR13*

Bayesian Inverse Problems
DR H. KEKKONEN
Tu. Th. 9, *MR14*

Dynamics of Astrophysical Discs
PROF. G. I. OGILVIE
Tu. Th. 10, *MR5*

Analysis of Survival Data +
DR P. TREASURE
Tu. Th. 10, *MR9* (Twelve lectures), starting Tue 29 Jan

Introduction to Approximate Groups
DR M. TOINTON
Tu. Th. 10, *MR12*

Direct and Inverse Scattering of Waves
DR O. RATH-SPIVACK
Th. S. 10, *MR13*

Elliptic Partial Differential Equations
DR I. MOYANO
Tu. Th. S. 10, *MR14*

Supersymmetry
DR D. B. SKINNER
Tu. Th. 11, *MR3*, starting Tue 22 Jan

Numerical Solution of Differential Equations
PROF. A. ISERLES
Tu. Th. S. 11, *MR5*

Mixing Times of Markov Chains
DR J. HERMON
Tu. Th. 11, *MR9*

Structure and Evolution of Stars
DR A. N. ZYTKOW
Tu. Th. S. 11, *MR11*

Statistics in Medical Practice +
DR C. JACKSON AND COLLEAGUES
Tu. Th. 11, *MR12* starting Thursday 11 October, no lecture on Thursday 25 October (Twelve lectures)

Topics in Ergodic Theory
DR P. VARJÚ
Tu. Th. S. 11, *MR13*

Quantum Field Theory
PROF. B. ALLANACH
Tu. Th. S. 12, *MR2*

Percolation and Random Walks on Graphs
DR P. SOUSI
Tu. Th. S. 12, *MR5* (Sixteen lectures)

Differential Geometry
DR A. G. KOVALEV
Tu. Th. S. 12, *MR9*

Optical and Infrared Telescopes and Instruments
DR I. PARRY
Tu. Th. 12, *MR11*

Perturbation Methods
DR S. J. COWLEY, PROF N. PEAKE
Tu. Th. 12, *MR12*

Inverse Problems in Imaging
DR Y. KOROLEV
Tu. Th. 12, *MR13*

Analytic Number Theory
DR T. BLOOM
Tu. Th. S. 11, *MR12*

Binary Stars
PROF. C. A. TOUT
Tu. Th. 11, *MR13*

Advanced Quantum Field Theory
DR M. B. WINGATE
Tu. Th. S. 12, *MR2*, starting Sat 19 Jan

Complex Manifolds
DR R. DERVAN
Tu. Th. S. 12, *MR14*

The following courses are non-examinable

Laboratory Demonstrations
PROF. S. B. DALZIEL, DR J. A. NEUFELD
W. 2-3:30, *Fluids Laboratory*

+ These two courses constitute the 24 lecture course in Statistics in Medicine