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 5 October 2016 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 Part III and Graduate timetable, which you can import into your own electronic calendar, please see http://www.timetable.cam.ac.uk.

MICHAELMAS 2016	**LENT 2017**	**EASTER 2017**
Functional Analysis DR A. ZSÁK M. W. F. 9, *MR5*	**The Standard Model** DR C. E. THOMAS M. W. F. 9, *MR3*	**Supersymmetry** PROF. F. QUEVEDO M. Tu. Th. F 11, *MR3*
Category Theory PROF. P. T. JOHNSTONE M. W. F. 9, *MR9*	**Elliptic Curves** DR T. A. FISHER M. W. F. 9, *MR5*	**Classical and Quantum Solitons** PROF. N. S. MANTON M. Tu. Th. F. 12, *MR5*
Astrophysical Fluid Dynamics PROF. G. I. OGILVIE M. W. F. 9, *MR13*	**Galactic Astronomy and Dynamics** PROF. N. W. EVANS M. W. F. 9, *MR12*	
Topics in Statistical Theory DR T. CANNINGS M. W. 9, *MR14*	**Stochastic Calculus and Applications** DR V. SILVESTRI M. W. F. 9, *MR13*	
General Relativity DR M. DUNAJSKI, PROF. H. S. REALL M. W. F. 10, *MR2*	**Representation Theory** DR S. MARTIN M. W. F. 10, *MR4*	
Local Fields DR H. C. JOHANSSON M. W. F. 10, *MR4*	**Riemann Surfaces and Teichmueller Theory** DR S. M. ANTONAKOUDIS M. W. F. 10, *MR5* *NO class F 27 Jan and M 30 Jan (makeup TBC)*	
Topics in Ergodic Theory DR P. VARJÚ M. W. F. 10, *MR5*	**Advanced Cosmology** DR A. D. CHALLINOR, PROF. E. P. S. SHELLARD M. W. F. 10, *MR12*	

Slow Viscous Flow
PROF. J. R. LISTER
M. W. F. 10, *MR13*

Combinatorics
PROF. B. BOLLOBÁS
M. W. F. 11, *MR3 (Sixteen lectures)*

Differential Geometry
DR J. A. ROSS
M. W. F. 11, *MR5*

Planetary System Dynamics
DR M. C. WYATT
M. W. F. 11, *MR11*

Inverse Problems in Imaging
DR M. BENNING, DR. M. EHRHARDT
M. W. F. 11, *MR12*

Modern Statistical Methods
DR R. D. SHAH
M. W. F. 11, *MR13*

Biological Physics and Complex Fluids
PROF. R. E. GOLDSTEIN, DR. E. J-M. LAUGA
M. W. F. 11, *MR14*

Advanced Probability
PROF. J. R. NORRIS
M. W. F. 12, *MR3*

Algebraic Topology
DR O. RANDAL-WILLIAMS
M. W. F. 12, *MR4*

Statistical Field Theory
DR M. B. WINGATE
M. W. F. 12, *MR9 (Sixteen lectures)*

Structure and Evolution of Stars
DR A. N. ŻYTKOW
M. W. F. 12, *MR13*

Hydrodynamic Stability
PROF. C. P. CAULFIELD
M. W. F. 12, *MR14*

Logic
DR T. E. FORSTER
M. W. F. 10, *MR13*

Topics in Mathematics of Information
DR C. POON
M. W. F. 10, *MR14*

Advanced Quantum Field Theory
DR D. B. SKINNER
M. W. F. 11, *MR2*

Geometric Group Theory
DR M. F. HAGEN
M. W. F. 11, *MR5 (Sixteen lectures)*

Numerical Solution of Differential Equations
PROF. A. ISERLES
M. W. F. 11, *MR9*

Extrasolar Planets
DR N. MADHUSUDHAN
M. W. F. 11, *MR12*

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

Quantum Fluids
PROF. N. G. BERLOFF
M. W. 11, *MR14*

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

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

Bayesian Modelling and Computation
DR S. BACALLADO
M. W. F. 12, *MR13*

Ramsey Theory
DR B. P. NARAYANAN
Tu. Th. 9, *MR4*

Perturbation Methods
DR S. J. COWLEY, DR. L. J. AYTON
Tu. Th. 9, *MR4*

Percolation and Random Walks on Graphs
DR P. SOUSI
Tu. Th. 9, *MR13*

Quantum Computation
PROF. R. JOZSA
Tu. Th. 9, *MR9*

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

Topics in Additive Combinatorics
PROF. W. T. GOWERS
Tu. Th. 10, *MR4*

Applied Statistics ++
DR D. PIGOLI
Tu. Th. 10, *MR14* and *CATAM Room* (Eight lectures
and eight classes)

Cosmology
DR J. R. FERGUSSON, DR. C. M. MARSH
Tu. Th. S. 11, *MR2*

Algebraic Geometry
PROF. C. BIRKAR
Tu. Th. S. 11, *MR4*

Mixing Times of Markov Chains
PROF. N. BERESTYCKI
Tu. Th. 11, *MR13*

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

Analysis of Partial Differential Equations
PROF. M. DAFERMOS, PROF. C. G. MOUHOT
Tu. Th. S. 12, *MR5*

Linear Systems
DR R. SVALDI
Tu. Th. 9, *MR5*
NO class Tu 24 Jan and Th 26 Jan (makeup TBC)

Topics in Convex Optimisation
DR H. FAWZI
Tu. Th. 9, *MR12*

Convection and Magnetoconvection
PROF. M. R. E. PROCTOR
Tu. Th. 9, *MR13*

String Theory
PROF. M. J. PERRY
Tu. Th. S. 10, *MR2*
Starting Sat 21 Jan and ending Thu 16 March

Algebras
DR C. J. B. BROOKES
Tu. Th. S. 10, *MR3*

Dynamics of Astrophysical Discs
DR H. LATTER
Tu. Th. 10, *MR9*

Environmental Fluid Dynamics
PROF. A. W. WOODS
Tu. Th. 10, *MR11*

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

Schramm-Loewner Evolutions
DR J. MILLER
Tu. Th. 10, *MR13*

Applied Statistics ++
DR D. PIGOLI
Tu. Th.10, *MR14* and *CATAM Room* (Four lectures
and four classes)

Modular Forms and L-Functions
PROF. A. J. SCHOLL
Tu. Th. S. 11, *MR3*

Lie Algebras and their Representations
PROF. I. GROJNOWSKI
Tu. Th. S. 12, *MR9*

Statistics in Medical Practice (Biostatistics) +
DR R. TURNER ET. AL.
Th. 4-6, *MR13* (five lectures on 20 Oct., 27 Oct.,
3 Nov., 10 Nov., and 24 Nov.)

Elliptic Partial Differential Equations
PROF. N. WICKRAMASEKERA
Tu. Th. S. 11, *MR5*

Binary Stars
PROF. C. A. TOUT
Tu. Th. 11, *MR12*

Fluid Dynamics of the Solid Earth
DR J. A. NEUFELD, PROF. M. G. WORSTER
Tu. Th. S. 11, *MR13*

Analysis of Survival Data (Biostatistics) +
DR P. TREASURE
Tu. Th. 11, *MR14 (Fourteen lectures)*

Riemannian Geometry
DR A. G. KOVALEV
Tu. Th. S. 12, *MR4*

Gaussian Processes
PROF. R. NICKL
Tu. Th. 12, *MR5*

**Optical and Infrared Astronomical
Telescopes and Instruments**
DR I. PARRY
Tu. Th. 12, *MR12*

Boundary Value Problems for Linear PDEs
DR I. HITZAZIS
Tu. Th. 12, *MR14*

The following course is non-examinable

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

+ These two courses constitute the 24 lecture course in Biostatistics
++ These two courses constitute the 24 lecture course in Applied Statistics