

## 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 4 October 2017 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 2017

#### Analysis of Partial Differential Equations

DR C. WARNICK  
M. W. F. 9, *MR9*

#### Modular Forms and L-Functions

PROF. A. J. SCHOLL  
M. W. F. 9, *MR5*

#### Topics in Statistical Theory

DR T. BERRETT  
M. W. 9, *MR14*

#### General Relativity

DR M. DUNAJSKI, PROF. H. S. REALL  
M. W. F. 10, *MR2*

#### Advanced Financial Models

DR M. R. TEHRANCHI  
M. W. F. 10, *MR4*

#### Functional Analysis

DR A. ZSÁK  
M. W. F. 10, *MR5*

#### Planetary System Dynamics

PROF. M. C. WYATT  
M. W. F. 10, *MR11*

#### Slow Viscous Flow

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

### LENT 2018

#### The Standard Model

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

#### Modular Representation Theory

DR S. MARTIN  
M. W. F. 9, *MR4*

#### Fluid Dynamics of the Solid Earth

DR J. A. NEUFELD, PROF. M. G. WORSTER  
M. W. F. 9, *MR13*

#### Stochastic Calculus and Applications

DR R. BAUERSCHMIDT  
M. W. F. 9, *MR5*

#### Symplectic Geometry

DR A. R. PIRES  
M. W. F. 10, *MR4*

#### Quantum Information Theory

DR N. DATTA  
M. W. F. 10, *MR9*

#### Advanced Cosmology

PROF. A. D. CHALLINOR, DR T. BALDAUF  
M. W. F. 10, *MR12*

#### Fluid Dynamics of Climate

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

### EASTER 2018

#### Supersymmetry

PROF. F. QUEVEDO  
M. Tu. Th. F. 10, *MR3* (Sixteen lectures)

#### Classical and Quantum Solitons

PROF. N. S. MANTON  
M. Tu. Th. F. 11, *MR3* (Sixteen lectures)

**Topics in Mathematics of Information**

DR C. POON

M. W. F. 10, *MR14***Commutative Algebra**

DR A. THOMPSON

M. W. F. 11, *MR3***Advanced Probability**

DR M. LIS

M. W. F. 11, *MR9***Structure and Evolution of Stars**

DR A. N. ŻYTKOW

M. W. F. 11, *MR11***Cosmology**

DR J. R. FERGUSSON, DR B. D. SHERWIN

M. W. F. 12, *MR2***Differential Geometry**

PROF. I. SMITH

M. W. F. 12, *MR5***Logic**

DR T. E. FORSTER

M. W. F. 12, *MR12***Environmental Fluid Dynamics**

PROF. S. B. DALZIEL, DR N. M. VRIEND

M. W. F. 12, *MR13***Modern Statistical Methods**

DR R. D. SHAH

M. W. F. 12, *MR14***Statistical Field Theory**

PROF. D. TONG

Tu. Th. 9, *MR3***Perturbation Methods**

DR S. J. COWLEY, DR. L. J. AYTON

Tu. Th. 9, *MR4***Statistical Learning in Practice**

DR T. WANG

M. W. F. 10, *MR5* (Twelve lectures) and *CATAM Room* (Twelve practicals)**Advanced Quantum Field Theory**

DR D. B. SKINNER

M. W. F. 11, *MR2***3-Manifolds**

DR S. RASMUSSEN

M. W. F. 11, *MR5***Extrasolar Planets: Atmospheres and Interiors**

DR N. MADHUSUDHAN

M. W. F. 11, *MR12***Topics in Set Theory**

PROF. B. LÖWE

M. W. F. 11, *MR13***Inverse Problems**

DR M. J. EHRHARDT, DR L. F. LANG

M. W. F. 11, *MR14***Black Holes**

DR J. E. SANTOS

M. W. F. 12, *MR3***Bayesian Modelling and Computation**

DR S. BACALLADO

M. W. F. 12, *MR5***Theoretical Physics of Soft Condensed Matter**

PROF. M. E. CATES

M. W. F. 12, *MR12* (Sixteen lectures)**Representation Theory**

DR E. GIANNELLI

M. W. F. 12, *MR13**No lecture on 21 Feb. Extra lecture on Thursday 15**March at 12 in MR5***Elliptic Partial Differential Equations**

PROF. N. WICKRAMASEKERA

M. W. F. 12, *MR14*

**Lie Algebras and their Representations**

DR B. ROMANO

Tu. Th. S. 9, *MR9***Optical and Infrared Astronomical Telescopes and Instruments**

DR I. PARRY

Tu. Th. 9, *MR11***Topics in Convex Optimisation**

DR H. FAWZI

Tu. Th. 9, *MR12***Percolation and Random Walks on Graphs**

DR P. SOUSI

Tu. Th. 9, *MR13***Symmetries, Fields and Particles**

PROF. N. DOREY

Tu. Th. S. 10, *MR2***Algebraic Number Theory**

DR H. C. JOHANSSON

Tu. Th. S. 10, *MR9***Topics in Ergodic Theory**

DR P. VARJÚ

Tu. Th. S. 10, *MR11***Distribution Theory and Applications**

DR A. ASHTON

Tu. Th. 10, *MR12***Hydrodynamic Stability**

PROF. C. P. CAULFIELD

Tu. Th. S. 10, *MR13***Combinatorics**

PROF. B. BOLLOBÁS

Tu. Th. S. 11, *MR3* (Sixteen lectures)**Algebraic Geometry**

PROF. P. M. H. WILSON

Tu. Th. S. 11, *MR4***Schramm-Loewner Evolutions**

DR J. MILLER

Tu. Th. 9, *MR4***Direct and Inverse Scattering of Waves**

DR O. RATH-SPIVACK

Tu. S. 9, *MR12***Characteristic Classes and K-Theory**

DR O. RANDAL-WILLIAMS

Tu. Th. 9, *MR13***Ramsey Theory**

PROF. I. B. LEADER

Tu. Th. 10, *MR3***Dynamics of Astrophysical Discs**

DR H. LATTER

Tu. Th. 10, *MR5***Positivity in Algebraic Geometry**

DR R. SVALDI

Tu. Th. 10, *MR13**Tu 23 Jan and Th 25 Jan are rescheduled to take place on Sat 10 Feb *MR3* and 17 Feb, 10, *MR14****Category Theory**

PROF. P. T. JOHNSTONE

Tu. Th. S. 11, *MR3***Numerical Solution of Differential Equations**

PROF. A. ISERLES

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

DR P. TREASURE

Tu. Th. 11, *MR14* (Twelve lectures)**String Theory**

PROF. P. K. TOWNSEND

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

DR K. S. MANDEL

Tu. Th. S. 12, *MR5*

**Statistics in Medical Practice +**  
DR C. JACKSON AND COLLEAGUES  
Tu. Th. 11, *MR12* (Lectures start Tu. 10 October,  
twelve lectures in total)

**Astrophysical Fluid Dynamics**  
DR R. RAFIKOV  
Tu. Th. S. 11, *MR13*

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

**Extremal Graph Theory**  
PROF. A. G. THOMASON  
Tu. Th. 12, *MR5*

**Algebraic Topology**  
DR J. RASMUSSEN  
Tu. Th. S. 12, *MR9*

**Stochastic Networks**  
PROF. F. P. KELLY  
Tu. Th. 12, *MR13*

**Complex Manifolds**  
DR D. POMERLEANO  
Tu. Th. S. 12, *MR14*

*The following course is 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