Last update 20 Jan. 14

MATHEMATICAL TRIPOS PART III

All lectures are held at the *Centre for Mathematical Sciences, Clarkson Road* unless otherwise stated. There will be a meeting in *MR2* on Wednesday 9 October 2013 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.

MICHAELMAS 2013

Advanced Probability
DR A. SOLA AND DR P. SOUSI
M. W. F. 9, *MR2*

Differential Geometry
DR A. G. KOVALEV
M. W. F. 9, *MR9*

Origin and Evolution of Galaxies
PROF. M. G. HAEHNELT
M. W. F. 9, *MR13*

Fluid Dynamics of the Environment
DR C. P. CAULFIELD
M. W. F. 9, *MR12*

Topics in Set Theory
DR O. KOLMAN
M. W. F. 9, *MR14*

Cosmology
DR D. D. BAUMANN
M. W. F. 10, *MR3*

Functional Analysis
DR A. ZSAK
M. W. F. 10, *MR4*

Commutative Algebra
DR C. J. B. BROOKES
M. W. F. 10, *MR9*

LENT 2014

Modular Forms
DR J. NEWTON
M. W. F. 9, *MR3*

Black Holes
PROF. H. S. REALL
M. W. F. 9, *MR5*

Stochastic Calculus and Applications
DR M. TEHRANCHI
M. W. F. 9, *MR9*

Complex and Biological Fluids
DR E. LAUGA
M. W. F. 9, *MR12*

Logic and Computation
DR T. E. FORSTER
M. W. F. 9, *MR13*

Advanced Quantum Field Theory
DR D. B. SKINNER
M. W. F. 10, *MR2*

Time Series and Monte Carlo Inference
DR A. CARPENTIER AND DR Y. YU
M. W. 10, *MR3*

Planetary System Dynamics
DR M. C. WYATT
M. W. F. 10, *MR9*

EASTER 2014

Advanced String Theory
PROF. M. J. PERRY
M. Tu. Th. F. 10, *MR9*

Classical and Quantum Solitons
PROF. N. DOREY
M. Tu. Th. F. 11, *MR9*

Mathematics of Operational Research
DR F. A. FISCHER
M. W. F. 10, *MR13*

Advanced Financial Models
DR M. TEHRANCHI
M. W. F. 11, *MR4*

Quantum Information Theory
DR N. DATTA
M. W. F. 11, *MR5*

Algebraic Topology
PROF. I. SMITH
M. W. F. 11, *MR9*

Slow Viscous Flow
PROF. J. R. LISTER
M. W. F. 11, *MR13*

Measure and Image
DR T. VALKONEN
M. W. 11, *MR14*

Biological Physics
PROF. R. E. GOLDSTEIN AND DR U. KEYSER
M. W. F. 12.10, *MR3*

Algebraic Geometry
PROF. P. M. H. WILSON
M. W. F. 12, *MR4*

Analysis of Partial Differential Equations
PROF. C. MOUHOT
M. W. F. 12, *MR9* (Lectures start on M. 14 Oct.)

Structure and Evolution of Stars
DR A. N. ZYTKOW
M. W. F. 12, *MR12*

Applied Statistics ++
DR S. M. PITTS AND DR J. WADSWORTH
M. W. 12, *MR13* and *CATAM Room* (Eight lectures and eight classes)

Sound Generation and Propagation
DR E. BRAMBLEY
M. W. 10, *MR11*

Distribution Theory and Applications
DR A. ASHTON
M. W. 10, *MR12*

Topos Theory
PROF. P. T. JOHNSTONE
M. W. F. 10, *MR13*

Topics in Infinite Groups
DR J. O. BUTTON
M. W. 10, *MR14*

The Standard Model
DR M. B. WINGATE
M. W. F. 11, *MR2*

Representations and Quivers
DR S. MARTIN
M. W. F. 11, *MR9*

Applied Bayesian Statistics
PROF. D. SPIEGELHALTER
M. W. 11, *MR13* and *CATAM Room*

Fluid Dynamics of Energy Systems
PROF. A. W. WOODS AND DR J. A. NEUFELD
M. W. 11, *MR14*

Supersymmetry
PROF. B. ALLANACH
M. W. 12, *MR3*

Analysis on Polish Spaces
DR D. J. H. GARLING
M. W. F. 12, *MR5*

Galactic Astronomy and Dynamics
PROF. N.W. EVANS
M. W. F. 12, *MR9*

Convex Optimisation with Applications in Image Processing
DR J. LELLMANN
M. W. F. 12, *MR14*

Quantum Field Theory
PROF. M. J. PERRY
Tu. Th. S. 9, *MR2*

Ramsey Theory
PROF. I. B. LEADER
Tu. Th. 9, *MR3*

Numerical Solution of Differential Equations
PROF. A. ISERLES
Tu. Th. S. 9, *MR12*

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

3-Manifolds
DR J. RASMUSSEN
Tu. Th. S. 10, *MR5*

Elliptic Curves
DR T. A. FISHER
Tu. Th. S. 10, *MR4*

Astrophysical Fluid Dynamics
PROF. J. C. B. PAPALOIZOU
Tu. Th. S. 10, *MR12*

General Relativity
DR U. SPERHAKE
Tu. Th. S. 11, *MR2*

Lie Algebras and their Representations
DR D. I. STEWART
Tu. Th. S. 11, *MR9*

Statistical Theory
DR R. NICKL
Tu. Th. 11, *MR13*

Complex Manifolds
DR J. A. ROSS
M. W. F. 12, *MR12*

Survival Data +
DR P. TREASURE
M. W. F. 12, *MR13* (Lectures start on M. 20 January. Fourteen lectures)

Direct and Inverse Scattering of Waves
DR O. RATH-SPIVACK
M. W. 12, *MR14*

Algebraic Methods in Incidence Theory
DR M. BATEMAN
Tu. Th. 9, *MR4*

Nonparametric Statistical Theory
PROF. R. J. SAMWORTH AND DR A. KIM
Tu. Th. 9, *MR5*

String Theory
PROF. P. K. TOWNSEND
Tu. Th. S. 9, *MR9*

Topics in Kinetic Theory
DR A. EINAV AND DR C. W. KIM
Tu. Th. S. 9, *MR11*

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

Percolation and Related Topics
PROF. G. R. GRIMMETT AND DR D. KISS
Tu. Th. 10, *MR2*

The Riemann Zeta-Function
DR A. J. HARPER
Tu. Th. S. 10, *MR4*

Dynamics of Astrophysical Discs
DR H. LATTER
Tu. Th. 10, *MR11*

Category Theory
DR J. GOEDECKE
Tu. Th. S. 12, *MR2*

Statistical Field Theory
PROF. R. R. HORGAN
Tu. Th. 12, *MR9*

Perturbation and Stability Methods
PROF. J. M. RALLISON AND DR S. J. COWLEY
Tu. Th. S. 12, *MR12*

Actuarial Statistics
DR S. M. PITTS
Tu. Th. 12, *MR13*

Statistics in Medical Practice +
DR R. TURNER ET AL.
Th. 4-6, *MR13* (Five lectures on 24 Oct., 31 Oct., 14 Nov., 21 Nov., and 28 Nov.)

Advanced Quantum Information Theory
DR T. CUBITT
Tu. Th. 10, *MR12*

Symplectic Topology
DR A. OTT
Tu. Th. S. 10, *MR13*

Image Processing - Variational and PDE Methods
DR C. B. SCHOENLIEB
Tu. Th. 10, *MR14*

Algebraic Number Theory
PROF. A. J. SCHOLL
Tu. Th. S. 11, *MR4*

Extremal and Probabilistic Combinatorics
PROF. B. BOLLOBAS
Tu. Th. 11, *MR3*

Quantum Computation
PROF. R. JOZSA
Tu. Th. 11, *MR5*

Applied Statistics ++
DR B. D. M. TOM
Tu. 11, *MR12* and *CATAM Room* (Four lectures and four classes)

Advanced Cosmology
PROF. E. P. S. SHELLARD AND DR A. CHALLINOR
Tu. Th. 11, *MR13*

Applications of Differential Geometry to Physics
DR M. DUNAJSKI
Tu. Th. 12, *MR5*

Schramm-Loewner Evolutions
PROF. J. R. NORRIS AND DR L. DUMAZ
Tu. Th. 12, *MR9*

The Unified Method for Partial Differential Equations and Medical Imaging
PROF. A. FOKAS
Tu. Th. 12, *MR11*

Quantum Foundations
DR A. P. A. KENT
Tu. Th. 12, *MR12*

Designing Online Contests
DR M. VOJNOVIC
Tu. Th. 12, *MR13*

The following course is non-examinable

Demonstrations in Fluid Dynamics
DR J. A. NEUFELD AND PROF. M. G. WORSTER
W. 2, *Fluids Laboratory*

+ These two courses constitute the twenty-four-hour course in Biostatistics
++ These two courses constitute the twenty-four-hour course in Applied Statistics