

FACULTY OF MATHEMATICS

COURSES INTENDED FOR GRADUATES (non-examinable)

MICHAELMAS 2012

Elliptic Partial Differential Equations

DR B. KRUMMEL

M. W. F. 11, *MR11*

Lattice Models in Probability and Statistical Mechanics

DR Z. LI

Tu. 12, *MR11*

Higher Dimensional Black Holes and Numerical General Relativity

DR P. FIGUERAS AND DR U. SPERHAKE

Tu. Th. 12, *MR12* (Eight lectures, beginning 6 November)

Philosophical Foundations of Field Theory

DR N. BOUATTA AND DR N. TEH

Tu. 4.30-6, *MR4*

Philosophy of Classical and Quantum Mechanics

DR J. N. BUTTERFIELD AND DR A. CAULTON

Th. 4.30-6, *MR4* (Eight lectures)

Topics in Theoretical Physics

PROF. D. TONG

F. 4, *MR9* (Lectures beginning 12 October)

LENT 2013

Calculus of Variations

DR S. DEMOULINI

M. W. F. 9, *MR5*

Applications of Functional Integration

DR D. M. A. STUART

M. W. 9, *MR11*

Complex Multiplication

DR T. YOSHIDA

M. W. F. 9, *MR14*

Realisability and Topos Theory

PROF. P. T. JOHNSTONE

M. W. F. 10, *MR11*

Novel Techniques for Boundary Value Problems

PROF. A. FOKAS

M. W. 10, *MR14*

Optimal Transport

DR A. EINAV

M. W. F. 11, *MR11*

Symplectic Geometry

DR Y. LEKILI

M. W. F. 12, *MR4*

Products of Random i.i.d. Matrices

DR P. VARJÚ

Tu. Th. 9, *MR15*

Granular Flows

DR N. M. VRIEND

Tu. Th. 10, *MR12* (Eight lectures)

Sporadic and Related Groups

DR R. PARKER

Tu. Th. 10, *MR14*

EASTER 2013

Topics in Algebraic Surfaces

DR M. SHEN

M. W. F. 10, *MR12*

Crystalline Cohomology and Applications

DR N. OJEDA BAR

M. W. F. 9, *MR12*

Concentration of Measure

DR N. BERESTYCKI AND DR R. NICKL

M. W. 11-1, *MR12* (Lectures from 6 May to 29 May)

Structure Theorems in Topological Dynamics +

DR Y. GUTMAN

Tu. Th. 12, *MR14* (Eight lectures)

Hodge Structures and Mumford-Tate Groups

DR C. VIAL

Tu. Th. 11, *MR4*

Applications of General Relativity

MISS I. M. M. BORZYM

Tu. Th. 11, *MR13*

Ornstein Theory +

DR Y. GUTMAN

Tu. Th. 11, *MR14*

Lectures on Higher Spin Gravity

DR E. PERLMUTTER

Tu. Th. 12, *MR4* (Four lectures, beginning 26 Feb.)

Analysis of Operators

DR A. J. WASSERMANN

Tu. Th. S. 12, *MR11*

Derived Algebraic Geometry

DR J. P. PRIDHAM

Tu. Th. S. 12, *MR14*

Philosophy of Classical and Quantum Mechanics

DR J. N. BUTTERFIELD AND DR A. CAULTON

Th. 4.30-6, *MR4* (Eight lectures)

+ The twenty-four-hour course is scheduled over the Lent (sixteen hours) and Easter terms (eight hours).