

FACULTY OF MATHEMATICS

COURSES INTENDED FOR GRADUATES (non-examinable)

All lectures are held at the *Centre for Mathematical Sciences, Clarkson Road* unless otherwise stated.

MICHAELMAS 2014

Analysis of Operators

DR A. J. WASSERMANN
M. W. F. 9, *MR13*

Analysis of Gauge Theories

DR D. M. A. STUART
M. W. 10, *MR11*

Measure and Image

DR T. J. M. VALKONEN
M. W. F. 11, *MR13* (Lectures start F. 24 October, sixteen hours)

Random Matrix Theory and its Applications to High-Dimensional Statistical Inference

DR D. LI
Tu. 10, *MR13*

Topics in Number Theory

DR W. KIM
Tu. Th. 10:30-12, *MR14*

Foundations of Classical Dynamics

DR J. B. PITTS, DR N. TEH
Tu. 4:30-6, *MR4*

Conformal Field Theory

PROF. H. OSBORN
F. 3, *MR9*

LENT 2015

Quantum Cohomology

PROF. I. SMITH
M. W. F. 9, *MR5*

~~**Calculus of Variations**~~ – CANCELLED

~~DR D. GOLDMAN
M. W. F. 9, *MR11*~~

Dispersive PDEs

DR S. YANG
M. W. F. 9, *MR14* (Lectures start F. 23 January, sixteen hours)

Spectral Geometry

DR D. BARDEN
M. W. F. 11, *MR11*

Topics in Combinatorial Algebraic Geometry

DR J. C. OTTEM
M. Tu. Th. 2, *MR5*

Statistics for Stochastic Processes

DR J. SÖHL
Tu. 9, *MR11*

Compressed Sensing and Sampling Theory

DR A. C. HANSEN
Tu. Th. 10, *MR11*

Numerical General Relativity

DR P. FIGUERAS, DR H. WITEK
Tu. Th. 10, *MR12*

Topics in Algebra and Geometry

PROF. I. GROJNOWSKI
Tu. Th. S. 11, *MR4*

EASTER 2015

Homogenization of PDEs

DR H. HUTRIDURGA
M. Tu. Th. F. 10, *MR5*

~~**Topics on Complex Geometry**~~ – CANCELLED

~~DR J. A. ROSS
M. Tu. Th. F. 11, *MR4*~~

Function Spaces

DR S. DEMOULINI
M. Tu. W. Th. F. 11, *MR5*

Rough Paths and Regularity Structures

PROF. P. K. FRIZ
W. 4-6, Th. 2-3, *MR14* (Lectures start W. 22 April, twelve hours)

Spinor Techniques in General Relativity

MISS I. M. M. BORZYM, DR P. O'DONNELL

Tu. Th. S. 11, *MR11*

Topics in Random Graphs

DR L. WARNKE

Tu. Th. 12, *MR11*

Mean Curvature Flow and Related Topics

PROF. N. WICKRAMASEKERA

Tu. Th. 12, *MR13*

Infinite Dimensional Lie Algebras

DR A. BOUAYAD

Tu. Th. 12, *MR14* (lectures start Tu. 3 February,
twelve hours)

Quantum Theory and the Foundations of Physics

PROF. A. P. A. KENT

Tu. 3, *MR4*

Philosophical Aspects of Quantum Field Theory

DR J. N. BUTTERFIELD, DR A. CAULTON

Tu. 4:30-6, *MR4*