

## Faculty of Mathematics (continued)

## COURSES INTENDED FOR GRADUATES (NON-EXAMINABLE)

MICHAELMAS 2010

LENT 2011

EASTER 2011

**Modul Spaces in Algebraic Geometry**PROF. N. I. SHEPHERD-BARRON  
M. W. F. 12, *MR12***Set Theory**PROF. A. R. D. MATHIAS  
M. W. F. 12, *MR14***Sigma Models and Mirror Symmetry**DR J. MCORIST  
M. 2, *MR9***Control of Quantum Systems**DR S. G. SEHIVMER  
M. W. 2, *MR14***Sporadic and Related Groups**DR R. PARKER  
Tu. Th. 9, *MR13***Topics in Theoretical Physics**PROF. M. J. PERRY AND PROF. G. W. GIBBONS  
Tu. 2, *MR9***Elementary Measure Theory and Related Topics**PROF. T. W. KÖRNER  
Tu. 3–5, *MR15***Philosophy of Physics**DR J. N. BUTTERFIELD  
Th. 4.30–6, *MR13***L-Functions**PROF. J. H. COATES  
M. W. F. 12, *MR11***Algebraic Methods in Combinatorics**DR D. C. ELLIS  
Tu. Th. 10, *MR9***Galois Modules**DR H. JOHNSTON  
Tu. Th. 10, *MR11***Topics in Geometric Analysis**DR N. WICKRAMASEKERA  
Tu. Th. 11, *MR11***Quantum Fluids**DR N. G. BERLOFF  
Tu. Th. 11, *MR14***Class Field Theory**DR T. YOSHIDA  
Tu. Th. S. 12, *MR12***Sequential Monte Carlo Methods**DR J. COSMA  
Tu. Th. 2, *MR4* (Eight lectures, beginning 10 Feb.)**Topics in Theoretical Physics**PROF. M. J. PERRY AND PROF. G. W. GIBBONS  
Tu. 2, *MR9***Frequentist Analysis of Nonparametric****Bayes Procedures**DR R. NICKL  
Tu. 2–4, *MR12* (Eight lectures)**Causal Inference**PROF. A. P. DAWID  
Th. 2, *MR12***Philosophy of Physics**DR J. N. BUTTERFIELD  
W. 4.30–6, *MR13***Computational Geometry**DR B. BUKH  
M. W. F. 10, *MR4***Gowers Uniformity Norms and Nilsequences**DR P. CANDELA  
M. W. F. 11, *MR4***Discrete Gravity**DR R. M. WILLIAMS AND DR B. BAHR  
M. W. F. 11, *MR9***Foliations on Three-Manifolds**DR A. JUHÁSZ  
M. 2.30–4, *MR4***Lie Groups and Differential Equations**DR M. DUNAJSKI  
Tu. Th. 2, *MR9***Hamiltonian Quantisation of Constrained Systems**DR P. D. D'EATH  
W. F. 2, *MR11*

## M.PHIL. IN COMPUTATIONAL BIOLOGY

Lectures are held in *the Centre for Mathematical Sciences*, unless otherwise stated.**Functional Genomics**DR B. CARVALHO, DR O. RUEDA, DR R. STARK  
W. 10, *MR15*, 11, *CATAM Room*, F. 10, *MR15***Genome Informatics**DR G. MICKLEM ET AL.  
M. 10, *MR15*, 11, *CATAM Room*, Th. 3, *MR15***Computational Neuroscience**DR S. EGLEN  
Tu. Th. 10, *MR15***Scientific Programming**DR S. EGLEN  
M. 1, *MR15*, Tu. Th. 12, *MR15*, 1, *CATAM Room*  
(weeks 1–3)**TBC**PROF. S. TAVARÉ  
Tu. 9–12, *MR15***Network Biology**PROF. L. WERNISCH AND DR F. MARKOWETZ  
W. F. 11, *MR15***Sequence Analysis**DR A. SCALLY  
M. F. 3, *MR15***Systems Biology**DR J. PAULSSON AND DR A. HILFINGER  
M. Tu. W. Th. 2–4 (weeks 1–2)