

**M. PHILS. (one-year courses), DIPLOMAS AND SPECIAL COURSES**

MICHAELMAS 2005

LENT 2006

EASTER 2006

## DEPARTMENT OF PHYSICS

Lectures take place on M. Tu. W. F. in the *Ryle Seminar Room, Rutherford Building, Cavendish Laboratory.*

A detailed timetable will be announced at the first lecture of each term

**Cavendish Astrophysics Group**

DR D. F. BUSCHER  
Astronomical Techniques (Eight lectures)

DR G. G. POOLEY  
Radiation and Radiative Transfer (Eight lectures)

DR P. ALEXANDER  
Fluids, Stellar Dynamics, Magnetic Fields (Eight lectures)

DR J. S. YOUNG  
Statistics and Probability (Four lectures)

PROF. R. E. HILLS  
Theory and Practice of Observing (Four lectures)

DR K. J. B. GRAINGE  
Interferometry (Four lectures)

DR D. A. GREEN AND DR J. S. RICHER  
Star Formation and Evolution (Eight lectures)

DR M. P. HOBSON  
Inverse Problems (Four lectures)

DR A. N. OTHER  
Observational Cosmology (Eight lectures)

DR M. KRAUSE  
AGN, Galaxies and Clusters (Eight lectures)

DR A. D. CHALLINOR  
Theoretical Cosmology (Eight lectures)

*Regular Seminars***Principal Seminars**

Cavendish Physical Society. W. 4.15 (Four seminars, 12, 26 Oct., 9, 23 Nov.)

Mott Colloquium. W. 4.15 (Four seminars, 19 Oct., 2, 16, 30 Nov.)

The same continued. (Four seminars, 25 Jan., 8, 22 Feb., 8 Mar.)

The same continued. (Four seminars, 1, 15 Feb., 1, 15 Mar.)

The same continued. (Two seminars, 10, 24 May)

The same continued. (Two seminars, 17, 31 May)

**Research Group Seminars**

PROF. Y. LIANG AND OTHERS  
Quantum Matter. W. 11.15

PROF. A. N. LASENBY AND OTHERS  
Astrophysics. Tu. 4.30

PROF. J. CARTER AND OTHERS  
High Energy Physics. Tu. 3

PROF. M. PEPPER AND OTHERS  
Semiconductor Physics. M. 2.15

DR W. G. PROUD AND OTHERS  
PCS (Materials). Th. 4.30

PROF. A. M. DONALD AND OTHERS  
Biological and Soft Systems. F. 2.15

PROF. R. H. FRIEND AND OTHERS  
Optoelectronics. Tu. 2.15

PROF. M. C. PAYNE AND OTHERS  
Theory of Condensed Matter. Th. 2.15

PROF. H. SIRRINGHAUS AND OTHERS  
Microelectronics. F. 11

The same continued.

The same continued.

The same continued.

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*Courses recommended for Research Students in Solid State Physics*Lectures are given either in the *TCM Seminar Room (TCM)*, *Mott Building* or the *Mott Seminar Room (M)*, *Mott Building* unless otherwise stated

STAFF OF THE MOTT BUILDING  
Solid State Physics. M. W. F. 9 (M)

PROF. A. M. DONALD AND OTHERS  
Principles of Electron Microscopy and Diffraction.  
Tu. Th. 12 (M) (additional practicals at times to be arranged)

PROF. D. E. KHMELNITSKII  
Fairy Tales in Physics. F. 10.30 (TCM)

PROF. D. E. KHMELNITSKII  
Solid State Theory. Tu. Th. 10 (TCM)

The same continued. (M)

The same continued. (M)

The same continued. (TCM)

PROF. D. E. KHMELNITSKII  
Physical Kinetics. Tu. Th. 10 (TCM) (Twelve lectures, beginning 19 Jan.)

DR M. J. RUTTER  
Miscellaneous Topics in Computing. W. 10 (TCM) (Six lectures, beginning 8 Feb.)

DR G. CSANYI  
Molecular Dynamics. M. 10 (TCM) (Six lectures, beginning 6 Feb.)

S. AHNERT  
Topics in Quantum Information Theory.  
M. W. 10 (TCM) (Four lectures, beginning 23 Jan.)

*Courses recommended for Research Students in Astrophysics*

See Graduate lectures in Astronomy and Astrophysics (p. 210)

*Courses recommended for Research Students in High Energy Physics*

PROF. J. CARTER AND OTHERS  
Selected Topics in Elementary Particle Physics.  
Tu. Th. 9.30 HEP Seminar Room

The same continued.

The same continued.