

# FAIRY TALES

## Lent Term

- 19 January  
ON SPECTRUM OF LAPLACE OPERATOR,  
RANDOM WALK and  
the GAUSS-BONNET THEOREM  
.  
FROBENIUS NUMBERS  
and QUANTUM MECHANICS
- 26 January  
SHAPE OF SPIRAL GALAXIES
- 2 February  
KAPITZA PENDELUM and AVERAGING  
in PROBLEMS of NONLINEAR MECHANICS
- 9 February  
TOPOLOGY OF ELECTRIC CONDUCTORS
- 16 February  
ON SYMMETRIC GROUP, YOUNG TABLEAUX  
and SUPER-SELECTION  
for ROTATIONS of MOLECULES
- 23 February  
THREE PARTICLES COLLISION
- 1 March  
COLLAPSING BUBBLE and IMPLOSION

- **8 March**  
**ASYMPTOTES OF PERTURBATION THEORY**
- **15 March**  
*SL*<sub>2</sub>(*R*) and **HYPER-GEOMETRIC FUNCTIONS**

- **EXTRA 1**  
**HALL CONDUCTANCE QUANTISATION**
- **EXTRA 2**  
**CRYSTALS AND QUASICRYSTALS**
- **EXTRA 3**  
**SEVEN ELEMENTARY CATASTROPHES**
- **EXTRA 4**  
**ON PENDELUM and ELLIPTIC FUNCTIONS**
- **EXTRA 5**  
**KOHN'S SURFACES and their SINGULARITIES**