

CONDENSED MATTER THEORY BEYOND THE BASICS

- **24 January**
LECTURE 1
MÖSSBAUER EFFECT

- **26 January**
LECTURE 2
*FIRST, NEARLY SECOND PHASE TRANSITIONS
IN COMPRESSIBLE SOLIDS*

- **31 January**
LECTURE 3
LIQUID AND SOLID HELIUM

- **2 February**
LECTURE 4
SHOENBERG MAGNETISM

- **7 February**
LECTURE 5
*FACETING OF CRYSTALS, ROUGHENING
TRANSITIONS, CRYSTAL GROWTH
AND MELTING WAVES*

- **9 February**
LECTURE 6
PARTICLE-HOLE LIQUID IN SEMICINDUCTORS
UNDER STRONG ILLUMINATION

- **14 February**
LECTURE 7
ORTHOGONALITY CATASTROPHE

- **16 February**
LECTURE 8
*QUASIPARTICLE'S LIFE TIME IN A FERMI SYSTEM,
CLEAN AND DISORDERED*

- **21 February**
LECTURE 9
FERMI LIQUID & COLLECTIVE EXCITATIONS

- **23 February**
LECTURE 10
MAGNETIC IMPURITIES & KONDO EFFECT

- **28 February**
LECTURE 11
BAND TAIL IN DISORDERED SOLIDS

- **2 March**
LECTURE 12
*ZERO-GAP SEMICONDUCTORS
AND THEIR SELF-DOPING*

- **7 March**
LECTURE 13
*2D ELECTRON GAS AND
QUANTUM HALL EFFECT*

- **9 March**
LECTURE 14
*COMPOSITE FERMIONS AND
FRACTIONAL QUANTUM HALL EFFECT*