

CONDENSED MATTER PHYSICS BEYOND THE BASICS

- 26 January
Lecture 1
LIQUID AND SOLID HELIUM
- 28 January
Lecture 2
ZERO GAP SEMICONDUCTORS
- 2 February
Lecture 3
FIRST, NEARLY SECOND
PHASE TRANSITION
- 4 February
Lecture 4
QUANTUM OSCILLATIONS &
SHOENBERG MAGNETISM
- 9 February
Lecture 5
WEAK LOCALISATION &
NEGATIVE MAGNETORESISTANCE
- 11 February
Lecture 6
ELECTRON-HOLE DROPLETS
IN SEMICONDUCTORS
- 16 February
Lecture 7
PHASE SLIPPAGE & RESISTANCE OF
NARROW SUPERCONDUCTING CHANNELS

- 18 February
Lecture 8
MAGNETIC IMPURITIES IN METALS
- 23 February
Lecture 9
EFFECTS OF INTERACTION IN DISORDERED METALS
- 25 February
Lecture 10
CHARGE DENSITY WAVES
IN 1D CONDUCTORS
- 2 March
Lecture 11
FACETING AND GROWTH OF CRYSTALS
- 4 March
Lecture 12
FRACTIONAL QUANTUM HALL EFFECT