ICTP DIPLOMA PROGRAMME IN CONDENSED MATTER PHYSICS 2014-15

SYLLABUS

Statistical Mecanics - {24 Lectures = 36 hours} A. Silva

- 1. Thermodynamics, work, energy, entropy
- 2. Phases of matter and phase transitions
- 3. Elements of ensemble theory
- 4. Canonical ensemble and grand canonical ensemble
- 5. Ideal gases
- 6. Bose and Fermi statistics
- 7. Statistical models of ferromagnetism
- 8. Elements of Landau-Ginzburg theory, critical exponents