Topics for Individual Presentation:

20 min presentation + 5 minutes for questions. Each student has to ask at least one question.

Quantum Hall effect
Graphene
Carbon Nanotubes
Excitons and exciton-polaritons
Mesoscopic physics and single electronics
Spectroscopy of quantum dots and quantum wires
Spintronics in metals/semiconductors
Neutron and electron scattering in solids
Solid state devices for quantum information processing
Magnetic properties of solids
Superconductivity

Individual Report on Project:

Option A: Report on presentation topic: Limit 5 pages double space 12pt including Figs and references.

Option B: Annotated Powerpoint: Powepoint slides with brief notes explaining the content of the slides. Limit 15 slides.