

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.