22.903 Photon and Neutron Scattering Spectroscopy and Its Applications in Condensed Matter

Midterm Presentation Topics (Power Point file needed) March 14, 16, 28, 2005; Time for each presentation: 30 min.

- 1. Photon correlation techniques: an overview.
- 2. An Overview of the European Neutron Sources
- 3. Inelastic X-ray Scattering (IXS)
- 4. Linear response theory for electrical conductivity
- 5. Hydrodynamic Equations, Transport Properties and Dynamic Structure Factor
- 6. Analogy Between Incoherent NMR & Neutron Scattering
- 7. Quasi-Elastic and Inelastic Neutron Scattering Spectrometers
- 8. Applications of small angle neutron scattering (SANS)
- 9. Japanese Synchrotron Source Spring 8