

Ma 7 - Raman scattering

Physics:

- Inelastic light scattering
- Phonons (quanta of lattice vibration)
- Excitons
- Properties of carbon-based materials including carbon nanotubes, graphene and graphite
- Optical properties of 2D van der Waals materials

Technical:

- Raman spectrometer
- Diode laser
- Power meter
- Halfwave plate

Data analysis:

- Fitting of Raman spectra by peak-o-mat and origin
- Plotting the data in a "paper" like format