

Masterschool Group Work Wednesday 6.9.2017

- 1) What kind of neutron/x-ray cross-sections are there with matter? name the different cross-section, and explain the fundamental interactions
- 2) How are neutrons/x-rays produced?
- 3) Diffraction at chemical lattice: what kind of instruments are used? components? advantage of neutrons/x-rays?
- 4) Sketch a X-ray and a neutron spectroscopy experiment
- 5) Sketch x-ray microscope and neutron imaging
- 6) Explain XMCD and polarized neutron diffraction