

## Neutron Imaging at the ESS: The ODIN Project

*Tuesday, 20 June 2017 11:30 (30 minutes)*

ODIN (Optical and Diffraction Imaging with Neutrons) is a beamline project at the European Spallation Source (ESS). It is a collaboration between the ESS, PSI and TUM, with TUM as lead institution.

ODIN will provide a multi-purpose imaging capability with spatial resolutions down to the  $\mu\text{m}$ -range. The pulsed nature of the ESS source will give access to wavelength- resolved information. Different imaging techniques, from traditional attenuation-based imaging to advanced dark field, polarized neutron or Bragg edge imaging, will be available within the full scope of ODIN with unprecedented efficiency and resolution. As a multi-purpose imaging instrument ODIN is designed to satisfy a wide range of scientific needs. Given the wide range of applications in various scientific fields, only a few examples will be given alongside the conceptual design of the instrument.

**Primary author:** Dr LERCHE, Michael (University of California, Davis)

**Presenter:** Dr LERCHE, Michael (University of California, Davis)

**Session Classification:** Parallel Session