



Contribution ID: 272

Type: **Talk**

The ODIN Project at the European Spallation Source

Monday, 17 September 2018 11:30 (15 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 μm 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. A summary of the technical full scope and its science application will be given and the updated conceptual instrument design including its challenges, will be presented.

Primary authors: LERCHE, Michael; MORGANO, Manuel (Paul Scherrer Institut); CALZADA, Elbio; STROBL, Markus (Paul Scherrer Institut); SCHULZ, Michael; SCHILLINGER, Burkhard

Presenter: LERCHE, Michael

Session Classification: Parallel session 1

Track Classification: P1 Instrumentation and methods