



Contribution ID: 34

Type: Talk

The neutron imaging facility ODIN at the European Spallation Source (ESS)

Friday 1 September 2017 10:00 (45 minutes)

M. Lerche (1), M. Morgano (2), M. Strobl (2) and E. Calzada (1)

1) Technical University of Munich, FRMII & Heinz Maier-Leibnitz Zentrum (MLZ), Germany

2) Paul-Scherrer-Institut, SinQ, Switzerland

Email: Michael.Lerche@frm2.tum.de

ODIN (Optical and Diffraction Imaging with Neutrons) is a beamline project at the European Spallation Source (ESS). It is 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, see figure 1, will be presented.

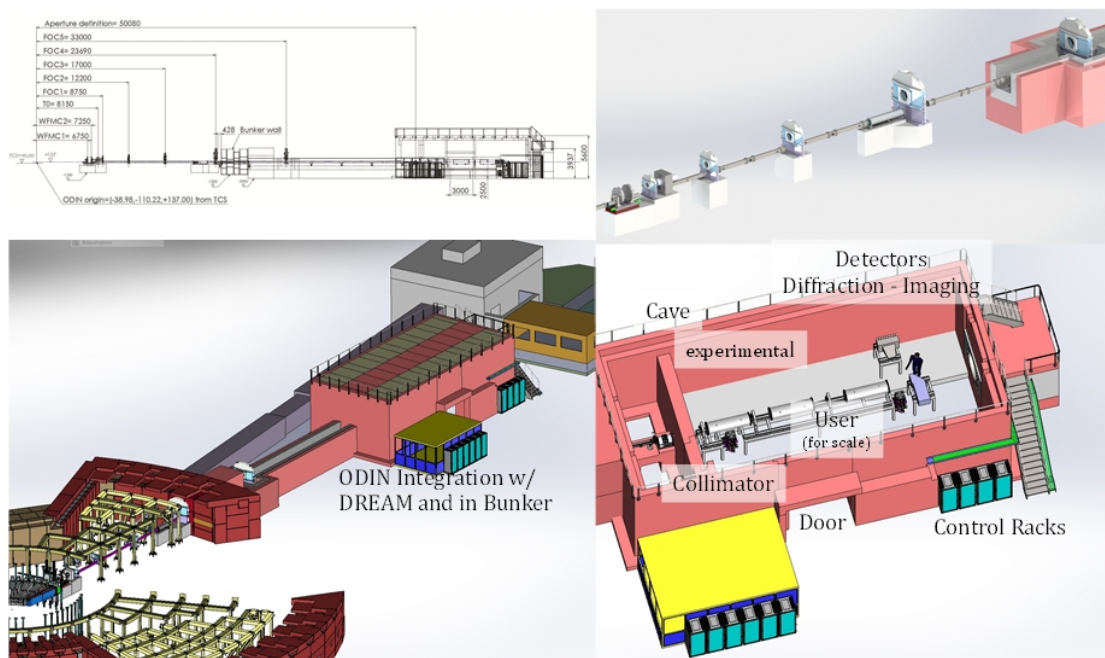


Figure 1: Image

Author: LERCHE, Michael

Presenter: LERCHE, Michael

Session Classification: Friday