

Structure and dynamics probed by neutrons

Prof. Christian Rüegg

Laboratory for Neutron Scattering and Imaging, Paul Scherrer Institute, Switzerland

Department of Condensed Matter Physics, University of Geneva, Switzerland

Abstract

Neutrons are exquisitely sensitive experimental probes for studies in many areas of fundamental science and technology. This introductory lecture will cover all aspects of the technique including the production of neutrons, their basic properties, cross-sections, classes of instruments, and science examples.

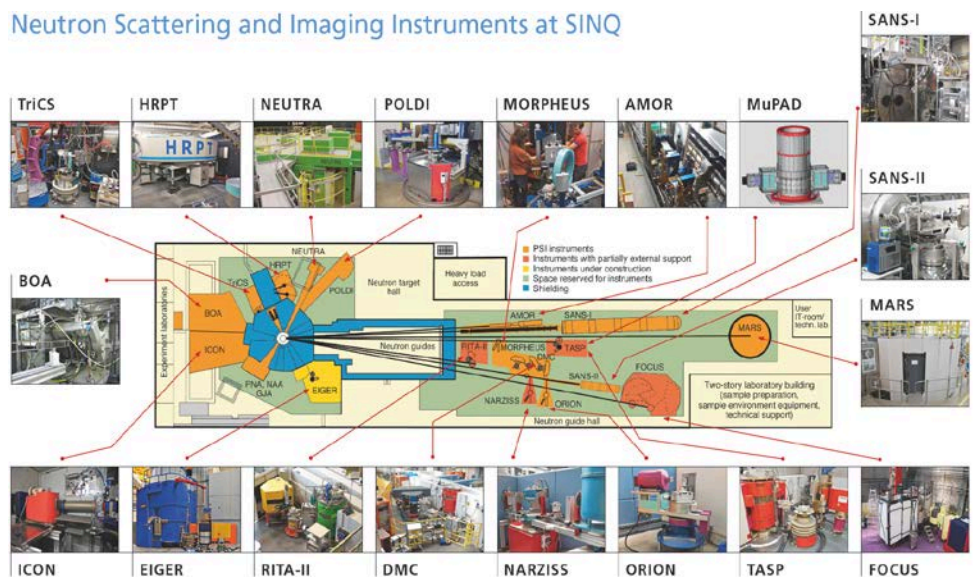


Figure 1: Neutron scattering and imaging instruments at the Swiss Spallation Neutron Source SINQ [1].

References

[1] Instruments at SINQ: www.psi.ch/sinq/instrumentation