



EINLADUNG

zum

VERA - SEMINAR

von

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Neutrons as a tool in condensed matter research

Neutron scattering is a technique which has emerged from nuclear physics more than half a century ago as a natural consequence of the high neutron flux available at nuclear reactors. It has since been used extensively to probe structure and dynamics of condensed matter and contributed substantially to our microscopic understanding of many phenomena in physics, chemistry, biology, materials science, etc. We try to present a concise overview of basic concepts (e.g. coherent/incoherent scattering) and techniques (e.g. diffraction, inelastic, small-angle, diffuse) using examples from various fields. In addition, neutrons are briefly contrasted with synchrotron radiation in order to demonstrate their complementarity.

Donnerstag, 22. April 2010, 16:30 Uhr

**1090 Wien, Währinger Str. 17, "Kavalierstrakt",
1. Stock, Victor-Franz-Hess-Hörsaal**