

PXRMS '00 tutorial abstract:

Multilayers and Neutron Scattering

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Abstract:

Neutron scattering techniques are a valuable complement to x-ray and other techniques for studying multilayers. The tutorial aims at giving an overview of the possibilities using neutron techniques as a tool for multilayer characterization and will include topics such as

- x-rays versus neutrons: what is scattering and how much?
- neutron reflectometry, also using
- polarised neutrons for studying
- magnetic multilayers,
- magnetically “dead” layers and
- magnetic roughness.
- coupling and dynamics

At the end of the tutorial the speaker will briefly show some examples of neutron optics involving multilayers.