

第 522 回物性セミナー・

第 35 回エネルギー—超高度利用研究拠点セミナー—

Neutron scattering and imaging methods - overview methods and possibilities

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場 所 先端物質科学研究科 403N

Neutron scattering is an important method for characterization of materials. Neutrons have several unique properties: (i) the scattering from light elements is similar to heavy elements in the periodic table; (ii) neutrons have a magnetic moment and unique for characterization of magnetic materials; (iii) neutrons penetrate far into many materials, and thus unique to study bulk properties and easy to use complex sample environments; and (iv) the scattering between neighboring elements and isotopes of same element can be very big. This presentation will cover different advantages of neutron scattering methods, different types of neutron-based instrumentation and examples of applications.

IFE is running a reactor, JEEP II, that is used for neutron scattering. The present and coming instrumentation in our upgrade program, McNeutron - Norwegian Center for Neutron Research (www.ncneutron.no), will be presented.

5 研究科共同セミナーの認定科目です

担当：市川 貴之（工学研究科）・内線 4315

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