

**Name of the organization**

Institute for Energy Technology

Name of the infrastructure / laboratory

JEEP II

Address and country of the infrastructure / laboratory:

Instituttveien 18, 2007 Kjeller, Norway

Person responsible of the access / Contact person

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Main field of activity of the infrastructure / laboratory

► Materials characterization

Short description of the infrastructure / laboratory

The infrastructure consists of three instruments for neutron scattering measurements at the nuclear reactor JEEP II. The instruments are used for structural characterization of materials from the atomic level to the nanometer scale. The techniques are especially useful for hydrogen containing materials since the neutrons are strongly scattered by the light hydrogen atoms.

Main research area(s) of the infrastructure / laboratory

Structural characterization of hydrogen storage materials.

Instruments and tools available for the above mentioned research

PUS: A high-resolution powder neutron diffractometer

ODIN: A multi-purpose neutron diffractometer for high-resolutions or in-situ studies

SANS: Small Angle Neutron Scattering instruments for investigations of nanometer-sized objects



The PUS instrument



The SANS instrument