

# **SEMINARIUM Z MAGNETYZMU I NADPRZEWODNICTWA**

Uprzejmie zawiadamiamy, że w **środę**

**28 marca 2018 r., o godz.10:00**

w sali 203 (bud. 1) odbędzie się seminarium, na którym

**Dr. Astrid Schneidewind**

*Jülich Centre for Neutron Science JCNS, MLZ Garching*

wyłosi referat na temat:

## **„Neutron scattering as a tool for studies on strongly correlated electron systems”**

Due to the large cross section of neutron interaction with magnetic moments, neutron scattering is an extremely powerful tool for studying magnetism, especially in solid matter. Neutron scattering mainly probes magnetic properties of solids on atomic scale, but today studies can be extended to domains and larger features like vortexes and topological structures.

The talk will try to introduce how the determination of magnetic structures can be performed and which information can be provided from measurements of magnetic excitations. It will focus on strongly correlated electron systems like heavy-fermion Ce-compounds and unconventional superconductors, but will show in addition examples for materials like multi-ferroica, geometrically frustrated and low-dimensional magnets. This will be combined with a presentation of the advanced experimental opportunities on neutron scattering instruments at MLZ Garching, developed for neutron scattering on magnetic materials.

Serdecznie zapraszamy

Roman Puźniak  
Henryk Szymczak  
Andrzej Wiśniewski