

(Preliminary) Program Joint JCNS Workshop & Flipper 2016

Tuesday, 4 October

Nanomagnetism I (Molecular Magnets & Nanoparticles)

09:10	Lescouezec	Molecular Magnetic Materials: Probing Magnetism at the local scale
09:40	Guidi	Antiferromagnetic molecular rings: spin density and dynamics
10:10	Petracic	Magnetic and structural order in self-assembled 2d and 3d nanoparticle supercrystals
10:30	Feygenon	Exchange bias effect in Au-Fe ₃ O ₄ dumbbell nanoparticles induced by the charge transfer from gold

Functional Materials I

11:20	Van Dijk	Neutron scattering studies on Fe ₂ P-based magnetocaloric materials
11:50	Friese	Multiparametric studies on magnetocaloric compounds in the system Mn _{5-x} Fe _x Si ₃
12:20	Stewart	Static correlated spin fluctuations in single crystal Fe ₆₅ Ni ₃₅ INVAR alloy, studied using small-angle neutron scattering with polarization analysis
12:40	Fu	Magnetic structures and magnetoelastic coupling of Fe-doped hexagonal manganites LuMn _{1-x} Fe _x O ₃ ($0 \leq x \leq 0.3$)

Unconventional Superconductors I

14:30	Boothroyd	Evidence for charge stripe correlations in the layered cobaltate La _{5/3} Sr _{1/3} CoO ₄
15:00	Jin	Magnetism in Eu(Fe _{1-x} Ir _x) ₂ As ₂ Iron Pnictides Studied by Complementary Scattering Methods
15:20	Demirdis	SANS Study of Vortex Lattice Structure in Iron-Based Superconductors
15:40	Cermak	Magnetoelastic hybrid excitations in non-centrosymmetric heavy fermion compound CeAuAl ₃

Wednesday, 5 October

Quantum / Frustrated Spin Systems I

09:00	Gegenwart	Frustrated quantum magnets with large spin-orbit coupling
09:30	Feng	Neutron scattering investigation of rare earth pyrochlore iridates
09:50	Chang	Low temperature magnetic properties of Yb ₂ Ti ₂ O ₇
10:20	Pecanha-Antonio	Neutron Scattering Studies on Yb ₂ Ti ₂ O ₇ powder

Nanomagnetism II (Films)

11:20	Temst	Exchange bias in thin Co-CoO films: inner secrets revealed by unpolarized neutron reflectivity
11:50	Glavic	Complex Magnetism in Manganite Heterostructures Probed with Polarized Neutrons
12:10	Syed Mohd	Connecting MARIA with an MBE setup: first (quasi) in-situ neutron reflectivity measurements on thin films

Thursday, 6 October

Neutron Methods and instrumentation I

09:00	Boeni	Instrumentation with Polarized Neutrons
09:30	Hutanu (POLI)	tbd
09:50	Schmidt (IN12)	Polarization analysis on the new IN12
10:10	Schweika (MAGiC)	MAGiC – the polarized single crystal diffractometer at the ESS
10:30	Mattauch (MARIA)	MARIA - The high-intensity polarized neutron reflectometer of JCNS

Functional Materials II (Multiferroics)

11:20	Angst	tbd
11:50	Sazonov	Magnetic structure and magnetic domain population in multiferroic $\text{Ba}_2\text{CoGe}_2\text{O}_7$ by polarized neutron diffraction
12:10	Zobkalo	On the antisymmetric exchange in TbMn_2O_5 by polarized neutron diffraction

Quantum/Frustrated Spin Systems II

14:30	Gao	Spiral spin liquid in MnSc_2S_4
15:00	Balz	Physical realization of a new quantum spin liquid based on a novel frustration mechanism
15:30	Weber	Field-dependence of the helimagnon dispersion in the chiral magnet MnSi

Unconventional Superconductors II

16:40	Raymond	Ising incommensurate Spin Resonance of CeCoIn_5 : A dynamical precursor of the Q-phase
17:10	Park	Transition from sign-reversed to sign-preserved Cooper-pairing symmetry in sulfur-doped iron selenide superconductors
17:30	T. Keller	Magnetostriction and magnetostructural domains in antiferromagnetic $\text{YBa}_2\text{Cu}_3\text{O}_6$

Friday, 7 October

Neutron Methods and Instrumentation II

09:00	Goukassov	Area Detectors for Single-Crystal Neutron Diffraction
09:30	Babcock	Latest results of practical testing of PASTIS with a TOF beamline
09:50	Nemkovskiy	Simulation and optimization of a new focusing polarizing bender for the diffuse neutron scattering spectrometer DNS@MLZ
10:10	Sadykov	Nonmagnetic high pressure clamp cells for neutron scattering at low temperature and high magnetic fields.
10:30	Burgoyne	Cryogen-free high magnetic field and low temperature sample environments for neutron scattering - latest developments

Functional Materials III (Multiferroics)

11:20	Rodriguez-Velamazán	Magnetic interactions and magneto-electric coupling mechanisms in iron penta-halide hybrid compounds
11:50	Xiao	Spin-wave and electromagnon dispersions in multiferroic MnWO ₄ as observed by neutron spectroscopy
12:10	Kousaka	Homo-chiral crystal growth and chiral helimagnetism in CsCuCl ₃

Posters

2016-1

Kirill Nemkovskiy, JCNS at MLZ, Forschungszentrum Jülich, Germany

Recent developments at DNS, diffuse neutron scattering spectrometer with polarization analysis at MLZ

2016-2

Artem Feoktystov, JCNS at MLZ, Forschungszentrum Jülich, Germany

Upgrade of the KWS-1 Small-Angle Neutron Scattering Instrument

2016-3

Henrik Thoma, RWTH Aachen University and JCNS at MLZ, Germany

New setup for polarized neutron diffraction at instrument POLI at MLZ

2016-4

Martin Meven, RWTH Aachen University and JCNS at MLZ, Forschungszentrum Jülich, Germany

Studies on new magnetic and superconducting compounds with Hot Single Crystal Diffraction on HEiDi

2016-5

Jörg Voigt, JCNS-2 and PGI-4, Forschungszentrum Jülich, Germany

T-REX: a bispectral direct geometry chopper spectrometer at the ESS

2016-6

Liming Wang, JCNS-2 and PGI-4, Forschungszentrum Jülich, Germany

Strain and electric field control of magnetism in supercrystalline iron oxide nanoparticle - BaTiO₃ composites

2016-7

Michael Smik, JCNS-2 and PGI-4, Forschungszentrum Jülich, Germany

Structural and magnetic properties of self-assembled 3D nanoparticle macrocrystals

2016-8

Artur Glavic, Paul Scherrer Institut, Switzerland

The Polarized Small Sample Reflectometer Estia at ESS