

Towards the Greater Region Magnetism Center (GRMC) Topics in Magnetism and Superconductivity

One-day conference "Superconductivity in the Greater Region"

26th November 2015

Room E.04

(Campus UdS Saarbrücken, Geb. E 2 6)

- ~9:30 h Welcome coffee
- 10:00 h Opening (M.Koblischka, U.Hartmann)
- 10:10 h "Fabrication of superconducting nanowires by electrospinning"
M.Sc. XianLin Zeng, UdS
- 10:40 h "Solid-state optical interface between remote superconducting qubits "
Jun.-Prof. P. Bushev, UdS
- 11:10 h "Current crowding in nanostructured superconductors"
Prof. A. Silhanek, Liège
- 11:40 h "Non-destructive measurements of the volume magnetic properties of large bulk (RE)BCO superconductors and hybrid ferromagnet/superconductor structures "
Prof. P. Vanderbemden, Liège
- 12:10 h Lunch break
- 13:30 h "Trapped magnetic field experiments and simulations in bulk MgB₂ samples"
Dr. K. Berger, GREEN Nancy
- 14:00 h "Advanced characterization of bulk superconductors"
PD Dr. M. Koblischka, UdS
- 14:30 h " "
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- 15:00 h Poster session and discussions
- 16:00 h Lab Tours
- ~17:00 h end

Posters:

"Magneto-resistance measurements on LSMO nanowire arrays" (T. Karwoth, X. Zeng)

"Electric measurements on MgB₂" (A. Wiederhold)

"Analysis of M(H)-loops of Bi-2212 nanowire arrays using the ECSM" (X.Zeng, D.Gokhfeld, T. Karwoth)

"EBSD analysis of a superconducting foam and an IG-processed YBCO sample" (A.Koblichka-Veneva)

"Classical analogy for the deflection of flux avalanches by a metallic layer" (Jérémy Brisbois)

"Thermal and quantum depletion of superconductivity in narrow junctions created by controlled electromigration" (Xavier Baumans)

"Analytical modelling of superconductors in electrical engineering applications" (K. Berger, B. Douine)

"Influence of an AC magnetic field on a superconducting bulk magnetized in an iron core" (K. Berger, B. Douine)

"New setup to characterize superconducting wires of 0.5 m length between 20 K and 60 K under magnetic field" (K. Berger, B. Douine)

"Design of a Low-Temperature Superconducting coils system generating up to 3 T in a 10 mm bore diameter with 3 axis orientations" (K. Berger, B. Douine)