



2006 Martin Peter Colloquium and MaNEP Topical meeting on "Novel Superconductors"

Wednesday September 27, 2006

The colloquium Martin Peter will be given by
P.W. Anderson, Princeton University, USA

10⁰⁰ - 10⁴⁵ Welcome coffee

Topical meeting 1st session

Chair: *D. van der Marel (UniGE)*

10⁴⁵ **J. Chang (ETHZ & PSI)**, "*Interplay between high-and low energy excitations in optimally doped LSCO: an ARPES study*".

11⁰⁵ **G. Levy (UniGE)**, "*Scanning tunneling spectra on HTS: the interplay of the gap, the bosonic mode and the van Hove singularity*".

11²⁵ **J. L. M. van Mechelen (UniGE)**, "*Electron-phonon coupling in SrTi_{1-x}Nb_xO₃*".

11⁴⁵ **C. Berthod (UniGE)**, "*Breakup of the Fermi surface near the Mott transition in low-dimensional systems*".

12⁰⁵ **P. S. Häfliger (UniZH)**, "*Muon-spin rotation measurements of the penetration depth in the noncentrosymmetric superconductors Li₂(Pd/Pt)₃B*".

12²⁵ - 14³⁰ Lunch sandwich poster session

Topical meeting 2nd session

Chair: *G. Blatter (ETHZ)*

14³⁰ **Z. Bukowski (ETHZ)**, "*Single crystal growth and properties of superconducting β -pyrochlore osmates KOsO₆ and Rb Os O₆. Novel pyrochlore compounds synthesized under high pressure*".

- 14⁵⁰ **A. Rüfenacht (UniNE)**, *"Probing the superfluid properties of ultrathin copper-oxide superconducting films with the electric-field effect"*.
- 15¹⁰ **N. Reyren (UniGE)**, *"Electric field effect modulation of transition temperature, mobile carrier density and in-plane penetration depth in NdBa₂Cu₃O_{7-δ} thin films"*.
- 15³⁰ **C. Weber (EPFL)**, *"Magnetism and superconductivity of strongly correlated electrons on the triangular lattice"*.
- 15⁵⁰ **D. Eichenberger (UniFR)**, *"Superconductivity in the two-dimensional repulsive U Hubbard model"*.

16¹⁰ - 17⁰⁰ Coffee break

17⁰⁰ - 18⁰⁰ **M. Peter Colloquium: Prof. P.W. Anderson, Princeton University**
"RVB after all: the theory of High T_c"
 Chair: T.M. Rice (ETHZ)

18¹⁵ Aperitif

19⁰⁰ END MaNEP Topical Meeting

Poster list

- **P. Lezza (UniGE)**, *"Simultaneous addition of B₄C + SiC to MgB₂ wires and consequences for J_c and B_{irr}"*.
- **C. Senatore (UniGE)**, *"Specific heat, a method to determine the T_c distribution in superconducting wires"*.
- **C. Dubois, (UniGE)**, *"Vortex cores in PbMo₆S₈ and KOs₂O₆ probed by STM"*.
- **N. Reyren (UniGE)**, *"Electrostatic modulation of superconductivity in Nb-doped SrTiO₃ Films"*.
- **E. van Heumen (UniGE)**, *"Illuminating cuprate superconductors"*
- **N.B. Christensen (ETHZ & PSI)**, *"One-dimensional spin modulation in a charge ordered cuprate"*.
- **J. Karpinski (ETHZ & PSI)**, *"MgB₂ single crystals, influence of magnetic and non-magnetic ions substitution and hole and electron doping on superconducting properties and structure"*.
- **D. Eschenko (UniZH)**, *"Low energy muon studies of PrBa₂Cu₃O₇ thin layers"*.
- **K. Schmidt (EPFL)**, *"Magnetic excitations in the stripe phase of high-T_c superconductors"*.
- **F. Mila (EPFL)**, *"The emergence of RVB physics in quantum dimer models of Mott insulators"*.
- **G. Leon (UniGE)**, *"Hall effect in organic superconductors"*.