



## 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**

10<sup>00</sup> - 10<sup>45</sup> Welcome coffee

Topical meeting 1<sup>st</sup> session

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

10<sup>45</sup> **J. Chang (ETHZ & PSI)**, "*Interplay between high-and low energy excitations in optimally doped LSCO: an ARPES study*".

11<sup>05</sup> **G. Levy (UniGE)**, "*Scanning tunneling spectra on HTS: the interplay of the gap, the bosonic mode and the van Hove singularity*".

11<sup>25</sup> **J. L. M. van Mechelen (UniGE)**, "*Electron-phonon coupling in SrTi<sub>1-x</sub>Nb<sub>x</sub>O<sub>3</sub>*".

11<sup>45</sup> **C. Berthod (UniGE)**, "*Breakup of the Fermi surface near the Mott transition in low-dimensional systems*".

12<sup>05</sup> **P. S. Häfliger (UniZH)**, "*Muon-spin rotation measurements of the penetration depth in the noncentrosymmetric superconductors Li<sub>2</sub>(Pd/Pt)<sub>3</sub>B*".

12<sup>25</sup> - 14<sup>30</sup> Lunch sandwich poster session

Topical meeting 2<sup>nd</sup> session

Chair: *G. Blatter (ETHZ)*

14<sup>30</sup> **Z. Bukowski (ETHZ)**, "*Single crystal growth and properties of superconducting  $\beta$ -pyrochlore osmates KOsO<sub>6</sub> and Rb Os O<sub>6</sub>. Novel pyrochlore compounds synthesized under high pressure*".

- 14<sup>50</sup> **A. Rüfenacht (UniNE)**, *"Probing the superfluid properties of ultrathin copper-oxide superconducting films with the electric-field effect"*.
- 15<sup>10</sup> **N. Reyren (UniGE)**, *"Electric field effect modulation of transition temperature, mobile carrier density and in-plane penetration depth in NdBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> thin films"*.
- 15<sup>30</sup> **C. Weber (EPFL)**, *"Magnetism and superconductivity of strongly correlated electrons on the triangular lattice"*.
- 15<sup>50</sup> **D. Eichenberger (UniFR)**, *"Superconductivity in the two-dimensional repulsive U Hubbard model"*.

### 16<sup>10</sup> - 17<sup>00</sup> Coffee break

17<sup>00</sup> - 18<sup>00</sup> **M. Peter Colloquium: Prof. P.W. Anderson, Princeton University**  
*"RVB after all: the theory of High T<sub>c</sub>"*  
 Chair: T.M. Rice (ETHZ)

### 18<sup>15</sup> Aperitif

### 19<sup>00</sup> END MaNEP Topical Meeting

### Poster list

- **P. Lezza (UniGE)**, *"Simultaneous addition of B<sub>4</sub>C + SiC to MgB<sub>2</sub> wires and consequences for J<sub>c</sub> and B<sub>irr</sub>"*.
- **C. Senatore (UniGE)**, *"Specific heat, a method to determine the T<sub>c</sub> distribution in superconducting wires"*.
- **C. Dubois, (UniGE)**, *"Vortex cores in PbMo<sub>6</sub>S<sub>8</sub> and KOs<sub>2</sub>O<sub>6</sub> probed by STM"*.
- **N. Reyren (UniGE)**, *"Electrostatic modulation of superconductivity in Nb-doped SrTiO<sub>3</sub> 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)**, *"MgB<sub>2</sub> 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 PrBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> thin layers"*.
- **K. Schmidt (EPFL)**, *"Magnetic excitations in the stripe phase of high-T<sub>c</sub> superconductors"*.
- **F. Mila (EPFL)**, *"The emergence of RVB physics in quantum dimer models of Mott insulators"*.
- **G. Leon (UniGE)**, *"Hall effect in organic superconductors"*.