Program of the

international workshop on

Strongly Correlated Transition Metal Compounds II

in Cologne, 11th – 14th September 2006

MONDAY, 11th September

9:00	*Conference desk opens*
9:45	Welcoming words
10:00 – 10:30	**P. Abbamonte** Charge character of the static 'stripe' phase in $La_{2-x}Ba_xCuO_4$
10:30 – 11:00	**G. Ghiringhelli** Electronic excitations in cuprates and other transition metal compounds studied by L_3 edge resonant inelastic x-ray scattering
Coffee 30 min.	
11:30 – 12:00	**A. Cavalleri** Ultrafast dynamics in complex solids manipulated and observed with "ultra-broadband" ultrafast pulses, from the THz to the hard x-rays.
12:00 – 12:30	**G. Sawatzky** Spectroscopy: where we are and where we go

Lunch & Coffee 2h.

14:30 – 15:00	**M. Sigrist** Superconductivity in metals without inversion symmetry
15:00 – 15:30	**A. Lichtenstein** Non-local correlations effects in transition metal compounds
15:30 – 16:00	**J. Schmalian** Electronic inhomogeneities and percolation in strongly correlated materials
Coffee 30 min.	
16:30 – 17:00	**E. Dagotto** Recent developments in the study of strongly correlated electronic systems in bulk and nanoscopic forms
17:00 – 17:30	**N. Nagaosa** Magneto-electric coupling in spiral magnets
17:30 – 18:00	**D. Vollhardt** Theory: where we are and where we go

TUESDAY, 12th September

9:00 – 9:30	**J.M.D. Coey** d^0 ferromagnetism
9:30 – 10:00	**H. v. Löhneysen** Ferromagnetic order in epitaxially strained $LaCoO_3$ thin films
10:00 – 10:30	**G. Aeppli** Polarons in real and reciprocal space
Coffee 30 min.	
11:00 – 11:30	**D. van der Marel** Magnetism, transport and optical properties of transition metal mono-silicides
11:30 – 12:00	**K. Behnia** Observation of the Nernst signal generated by fluctuating Cooper pairs
12:00 – 12:30	**B. Keimer** Experiment: where we are and where we go

Lunch & Coffee 2 h

14:30 – 15:00	**G. Lonzarich** Quantum tuning of magnetic and dielectric materials
15:00 – 15:30	**Ch. Rüegg** Field-induced quantum phase transitions in low-dimensional magnetic insulators
15:30 – 16:00	**T. Senthil** Spin fluid and spin nematic states of frustrated quantum magnets
16:00 - 16:30	**S. Sachdev** Quantum critical point: where we are and where we go

Evening together in town

WEDNESDAY, 13th September

9:00 – 9:30	**S.-W. Cheong** Overview of multiferroics
9:30 – 10:00	**T. Kimura** Ferroelectricity in spiral magnets with cycloidal component
10:00 – 10:30	**P. Radaelli** Symmetry constraints on the electrical polarization in novel multiferroic materials
Coffee 30 min.	
11:00 – 11:30	**A. Loidl** Magnetoelectric effects in multiferroics
11:30 – 12:00	**A.H. MacDonald** Modulation doping in Mott insulators
12:00 – 12:30	**A. Aharony** Competing magnetic phases and multiferroic behaviour in $Ni_3V_2O_8$ and $Co_3V_2O_8$

Lunch & Coffee 2h

14:30 – 15:00	**A. Georges** The hidden gap scale and nodal-antinodal dichotomy in underdoped superconducting cuprates
15:00 – 15:30	**N. Nakatsuji** Frustrated spins and anomalous Hall effect in the pyrochlore magnet $Pr_2Ir_2O_7$
15:30 – 16:00	**S. Bramwell** Entropy and emergence in spin ice
Coffee 30 min.	
16:30 – 17:00	**T. Katsufuji** Charge and orbital ordering in spinel vanadates
17:00 – 17:30	**H. Takagi** New Ir and Rh oxides with spinel-related structure
17:30 -	Presentation of posters, 1.5 minutes per poster

Poster session at department of physics - with food

THURSDAY, 14th September

9:00 – 9:30	**E. Antipov** Structure design of new Perovskites
9:30 – 10:00	**P. Battle** Cation and charge ordering in Perovskite-related structures
10:00 – 10:30	**B. Raveau** Doping of cobaltites at Co sites: competition between ferromagnetism (or spinglass) and phase separation
Coffee 30 min.	
11:00 – 11:30	**B. Büchner** Electrochemically doped oxides
11:30 – 12:00	**R.J. Cava** Materials: where we are and where we go

End of workshop