International Workshop on Strongly correlated transition metal Compounds

Venue: Kardinal Schulte Haus, Bergisch Gladbach near Cologne

Sunday 3rd August nal welcome

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Monday 4th August

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9:00-9:30	P.Wölfle, Karlsruhe University, FRG
	Incoherent metal phase of doped Mott insulators: pseudogaps and non-Fermi
0.00.10.00	liquid behaviour
9:30-10:00	N.P. Ong, Princeton University, USA
10.00 10.20	The vortex Nernst effect and H_{c2} in cuprates and new results on layered cobaltates
10:00-10:30	O. Gunnarsson, MPI Stuttgart, FRG
10.20 11.00	<i>The Ioffe-Regel criterion and saturation of electrical resistivity in metals</i> Tea/Coffee
10:30.11:00 11:00-11:30	Y. Tokura, University of Tokyo, Japan
11.00-11.30	Spin chirality and Berry phase phenomena in pyrochlore-type Mo-oxides
11:30-12:00	J.B. Goodenough, University of Texas, USA
11.50 12.00	Comments on the Mott-Hubbard Transition
13:00	Lunch
15:00-15:30	St. Wirth, MPI Dresden, FRG
10.00 10.00	Properties and tunneling studies of the electron doped manganite La _{0.7} Ce ₀₃ MnO ₃
15:30-16:00	P. Attfield, University of Cambridge, UK
	Charge ordering in transition metal oxides- from magnetite to manganites
16:00-16:30	Tea/Coffee
16:30-17:00	S-W. Cheong, Rutgers University, USA
	Preformed, nanoscale ferromagnetism in manganites
17:00-17:30	G.A. Sawatzky, University of British Columbia, Canada
	Possible pathways to new classes of ferromagnetic and half-metallic ferromagnetic
10.00	materials
19:00	Dinner
	<u>Tuesday 5th August</u>
9:00-9:30	H.R.Ott, ETH Zürich, Switzerland
	Spin mediated energy transport in 1D spin systems
9:30-10:00	T. Kopp, Augsburg University, FRG
	Towards an understanding of spin excitations in low-dimensional quantum
10.00.10.20	antiferromagnets
10:00-10:30	T. Giamarchi, University of Geneva, Switzerland
10.20 11.00	Deconfinement in coupled Luttinger liquids
10:30.11:00 11:00-11:30	Tea/Coffee C. Broholm, John Hopkins University and NIST, USA
11.00-11.50	Spin-1/2 chains in uniform and staggered fields
11:30-12:00	I. Affleck, Boston University, USA
11.30-12.00	Flux pinning and non-Hermitian Luttinger liquids
13:00	Lunch
15:00-15:30	F. Mila, University of Lausanne, Switzerland
	Magnetization plateau in frustrated quantum magnets

15:30-16:00	A. Loidl, Augsburg University, FRG
16 00 16 20	Frustration effects in spinel-type compounds
16:00-16:30	Tea/Coffee
16:30-17:00	M. Sigrist, ETH Zürich, Switzerland
17 00 17 00	Ruthenates: unconventional superconductivity and magnetism
17:00-17:30	Y. Maeno, Kyoto University, Japan
10.00	Anisotropic specific heat of Sr ₂ RuO ₄
18:30	Dinner
20:00-	Poster session with draft beer
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	Wednesday 6 th August
9:00-9:30	J. Tranquada, BNL, USA
	Metallic charge stripes and superconductivity in cuprates
9:30-10:00	W. Hanke, Würzburg University, FRG
	From antiferromagnetism to d-wave superconductivity: the role of bosonic spin
	and charge excitations
10:00-10:30	M. Greiter, Karlsruhe University
	Possible theory of high- T_c superconductivity: the chirality liquid and pairing
	via chiral confinement
10:30-11:00	Tea/Coffee
11:00-11:30	J. Fink, IFW Dresden, FRG
	Recent results on the electronic structure of high- T_c superconductors from
	angle-resolved photoemission
11:30-12:00	B. Keimer, MPI Stuttgart, FRG
	Spin/orbital dynamics in transition metal oxides
13:00	Lunch
15:00-15:30	
	Spin, orbital and charge ordering from $LDA+U$ calculations
15:30-16:00	M.V. Mostovoy, University of Groningen, Netherlands
	Orbital interactions and frustration in Jahn-Teller materials
16:00-16:30	Tea/Coffee
16:30-17:00	G. Khaliullin, MPI Stuttgart, FRG
	Quantum orbital physics in titanates and vanadites
17:00-17:30	P. Horsch, MPI Stuttgart, FRG
	Optical conductivity and orbital degeneracy in manganites and vanadites
18:00-18:30	Dinner
18:45	Departure for guided tour through the old part of Cologne
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	<u>Thursday 7th</u>
9:00-9:30	A. Simon, MPI Stuttgart, FRG
	Superconductivity and giant magneto resistance in layered rare earth halides
9:30-10:00	M. Takano, Kyoto University, Japan
	Ligand holes: SrFeO ₃ and (Ca,Na) ₂ CuO ₂ Cl ₂
10:00-10:30	Tea/Coffee
10:30-11:00	A. Maignan, CNRS Caen, France
	Unusual electronic and magnetic properties in cobaltites with low dimensionality
11:00-11:30	R.J. Cava, Princeton University, USA
	Non-perovskite ruthenates and layered cobalt oxides- new materials with
	unexpected properties
12:00	Lunch