

## Second Workshop

# *Properties of HTSC*

December 17 – 18, 2007 Munich Residence

Bayerische Akademie der Wissenschaften  
Alfons-Goppel-Str. 11  
D-80539 München

### Program

Length of talks: 25 min + 5 min and 15 min + 5 discussion

### Monday, December 17, 2007

8:50	R. Hackl: Opening
9:55	Welcome ?
9:00	P. Calvani
	Restricted optical sum rules in the normal state of cuprates
9:30	A. Dubroka
	Multilayer analysis of the c-axis infrared response of underdoped bilayer cuprates: distinction between precursor superconducting correlations and the pseudogap
10:00	A. Kordyuk
	ARPES on HTSC: new results
10:20	A. Narduzzo
	Violation of the isotropic $\ell$ approximation in overdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$
10:40	W. Prestel
	Comparison of single- and two-particle response functions
11:00	Coffee break
11:30	D. Bonn
	Structural order, critical phenomena, and a possible quantum critical point in YBCO
12:00	C. Proust
	Fermi surface of underdoped cuprate revealed by quantum oscillations and Hall effect
12:30	M. Norman
	Fermi arcs and Fermi pockets in cuprates
13:00-14:30	Lunch
14:30	M. Vojta
	d-wave stripes in cuprates
15:00	P. Bourges
	"Circulating currents" phase in high- $T_c$ cuprates
15:30	V. Hinkov
	Electronic liquid-crystal phase in $\text{YBa}_2\text{Cu}_3\text{O}_{6.45}$
16:00-16:20	Coffee break
16:20	H.-J. Grafe
	Cu NQR Wipeout Effect Charge Pseudogap in Zn-/Ni doped $\text{NdBa}_2\text{Cu}_3\text{O}_{6+x}$
16:50	L. Tassini
	First order effects at the onset of superconductivity
17:10	Poster session with beer and snacks
19:30	Dinner at Paulaner Bräuhaus, Kapuzinerpl. 5 (U3/6 Goetheplatz)

## Tuesday, December 18, 2007

9:00	J. Mesot
	Two energy scales in HTSC from combined neutron and ARPES spectroscopies
9:30	T.P. Devereaux
	Energy scales revealed from ARPES
10:00	A. Pasupathy
	Gap evolution in overdoped Bi-2212
10:30	R. Hackl
	Energy scales revealed from Raman
10:50-11:10	Coffee break
11:10	M. Wagenknecht
	Probing the superconducting state via Andreev bound states in cuprates
11:30	J.F. Douglas
	Isotope effect in BSCCO
11:50	M. Raichle
	Doping dependence of the buckling mode in the system $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$
12:10	W. Hanke
	Do we need a bosonic glue to pair electrons in high- $T_c$ superconductors
12:40	A. Erb
	NCCO and LSCO: covering the entire phase diagram
13:00-14:30	Lunch
14:30	M. Aichhorn
	Superconductivity in the Hubbard model and the two gap energy scales in high- $T_c$ superconductors
14:50	D. Manske
	Theory for ultrafast nonequilibrium dynamics in d-wave superconductors
15:20	E. Arrigoni
	Single-particle excitations in High- $T_c$ superconductors and in half-metallic ferromagnets
15:40	H.H. Klauss
	Superconductivity and Magnetism in Thin Films of $(\text{LaCe})_2\text{CuO}_4$
16:10-16:30	Coffee break
16:30	H. Yamase
	Fermi surface symmetry breaking in $\text{Sr}_3\text{Ru}_2\text{O}_7$
16:50	C. Pfleiderer
	Coupled order parameter phenomena in f-electron superconductors
17:10	S. Borisenko
	Pseudogap in CDW compounds