

# HTSC Workshop Ringberg 2005 - Program

Nov, 7th – 11th

joint meeting of the MPI Stuttgart and the DFG Research Unit "HTSC"

	Mon 7	Tue 8	Wed 9	Thu 10	Fri 11
8:40-8:50	<b>Keimer</b> Welcome				
8:50-9:00	<b>Hackl</b> Welcome				
9:00-9:30	<b>Sigrist</b> Effects of spin-orbit coupling in superconductors without inversion center	<b>Scalapino</b> Spin fluctuation phenomenology in the cuprates	<b>Fischer</b> The pseudogap and the four-fold structure of vortex core states in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$	<b>Jarrell</b> A systematic study of superconductivity and the pairing mechanism in the Hubbard model	<b>Metzner</b> Soft Fermi surfaces: A new route to non-Fermi liquid behavior
9:45-10:15	<b>Weber</b> Multiband-Gutzwiller method for correlated electron systems: Is there hope for superconducting wave functions?	<b>Vojta</b> Spin excitations in fluctuating stripe phases	<b>Büchner</b> O-NMR study of stripe ordered cuprates	<b>Ando</b> Electronic Structure of High-Tc Cuprates Inferred from the Hall Coefficient Measured up to 1000 K	<b>Honerkamp</b> Anisotropic truncation of the Fermi surface: a weak coupling route
10:30-11:00	<b>COFFEE BREAK</b>	<b>COFFEE BREAK</b>	<b>Castellani</b> Superconductivity and pseudogap phase close to a Mott transition	<b>COFFEE BREAK</b>	<b>Andersen</b> Hamiltonians for HTSCs from LDA Wannier-like functions
11:00-11:30	<b>Pickett</b> Breaking of Frustration by Coupled Rattler Ions in Superconducting $\text{KOs}_2\text{O}_6$	<b>Bernhard</b> Exploring the nature of the normal state pseudogap in the c-axis conductivity of cuprate HTSC - an ellipsometry study	<b>COFFEE BREAK</b>	<b>Bourges</b> Elastic and Inelastic neutron investigation of magnetism in high-Tc cuprates	<b>COFFEE BREAK</b>
11:45-12:15	<b>Gunnarsson</b> Electron-phonon and Coulomb interactions in cuprates	<b>Borisenko</b> Renormalization effects in BSCCO and YBCO as seen by ARPES	<b>Alff</b> Phase diagram of electron doped cuprates: What do we know?	<b>Devereaux</b> Correlations, anisotropy and electron-phonon interaction in the cuprates	<b>Damascelli</b> Nodal-antinodal quasiparticle anisotropy reversal in the overdoped high-Tc cuprates
12:30-14:00	<b>LUNCH</b>	<b>LUNCH</b>	<b>Lambacher 12.30-13.00</b> Properties of n-doped single crystalline cuprates	<b>LUNCH</b>	<b>Xie 12.30-13.00</b> Interpretation of ARPES Fermi surfaces for multi-layer cuprates; the strange case of $\text{Ba}_2\text{Ca}_3\text{Cu}_4\text{O}_8\text{F}_2$

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14:00-14:30	<b>Chubukov</b> Dispersion anomalies in the cuprates	<b>Yazdani</b> Nanoscale Measurements of High- $T_c$ Cuprates in the Pseudogap State	13.15 LUNCH	<b>Sangiovanni</b> Electron-phonon interaction close to a Mott transition	13.15 LUNCH
14:45-15:15	<b>Keimer</b> Spin excitations in YBCO	<b>Hackl</b> Ordering phenomena and electron renormalization in the cuprates	FREE AFTERNOON	<b>Khaliullin</b> Density fluctuations in the t-J model	MEETING of the MEMBERS of FG538
15:30-16:00	COFFEE BREAK	COFFEE BREAK		COFFEE BREAK	
16:00-16:30	<b>Hanke</b> Correlated Band Structure and the Ground-State Phase Diagram in High- $T_c$ Cuprates	<b>Di Castro</b> Charge ordering fluctuations and anomalous Raman response in cuprates		<b>Horsch</b> Phonon renormalization and dynamical stripes	
16:45-17:15	<b>Yamase</b> Theory of ab-anisotropy of magnetic excitations in untwinned YBCO	<b>Zeyher</b> Low-frequency magnetic response in strongly underdoped cuprates		<b>Hackl</b> Progress report of the DFG Research Unit "HTSC"	
17:30-18:00	<b>Manske</b> Theory for spin excitations in high- $T_c$ cuprates				
18:30-19:30	DINNER	DINNER (Bayerischer Abend)	DINNER	DINNER	DINNER
19:30-21:00		Poster		Poster	