Program of the workshop on

Recent Developments in Dynamical Mean Field Theory

September 28-30, ETH Zurich

Monday, 28. 9. 2009		Siemens Auditorium, HIT (E floor)
8:30 - 9:00	registration and welcome	
Chair: Andrew Millis		
9:00 - 9:30	Mark Jarrell	*Quantum Criticality at finite doping in the 2D Hubbard Model*
9:30 - 10:00	Olivier Parcollet	*Cluster DMFT approach to orbital-selective Mott transition in momentum space*
10:00 - 10:30	Ansgar Liebsch	*Low-energy collective mode and particle-hole asymmetry in the 2D Hubbard model studied within finite-temperature ED/CDMFT*
10:30 - 11:00	coffee break	
11:00 - 11:30	Alexey Rubtsov	*Dual fermions: a nonlocal extension of DMFT with high momentum resolution*
11:30 - 12:00	Silke Biermann	*Realistic DMFT calculations for transition metal oxides and pnictides*
12:00 - 14:00	lunch break	
Chair: Antoine Georges		
14:00 - 14:30	Junya Otsuki	*Magnetic and charge instabilities in the Kondo lattice*
14:30 - 15:00	Krzysztof Byczuk	*Quantifying correlation and effects of disorder in the Hubbard model*
15:00 - 16:00	coffee break	
16:00 - 16:30	Hartmut Monien	*Optimal frequency grids for DMFT*
16:30 - 17:00	Thomas Schulthess	*Numerical studies of a repulsive two-dimensional Hubbard model with disorder*

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Tuesday, 29. 9. 2009		Siemens Auditorium, HIT (E floor)
Chair: Mark Jarrell		
9:00 - 9:30	Karsten Held	*Dynamical vertex approximation - a step beyond DMFT*
9:30 - 10:00	Hartmut Hafermann	*Recent applications of the dual-fermion method*
10:00 - 10:30	Hiroaki Kusunose	*Superconductivity by spin fluctuations around DMFT*
10:30 - 11:00	coffee break	
11:00-11:30	Sergey Skornyakov	*LDA+DMFT method in Wannier functions basis: application to $BaFe_2As_2$ spectral properties investigation*
11:30 - 12:00	Luis Craco	*Electronic correlations in transition metal compounds: A view from multi-orbital LDA+DMFT(IPT)*
12:00 - 14:00	lunch break	
Chair: André-Marie Tremblay		
14:00 - 14:30	Dieter Vollhardt	*DMFT for correlated bosons and boson-fermion mixtures*
14:30 - 15:00	Akihisa Koga	*Ordered states in fermionic optical lattice systems: Real-space DMFT approach*
15:00 - 16:00	coffee break	
16:00 - 16:30	Nils Blümer	*DMFT simulations of ultracold fermions in optical lattices*
16:30 - 17:00	Martin Eckstein	*Dynamical mean-field theory for nonequilibrium*
18:30 -	conference dinner	Restaurant “Waid”

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Wednesday, 30. 9. 2009		Siemens Auditorium, HIT (E floor)
Chair: Dieter Vollhardt		
9:00 - 9:30	André-Marie Tremblay	*Mott transition and quantum cluster approaches*
9:30 - 10:00	Emanuel Gull	*Momentum-selective metal-insulator transition in the 2D Hubbard model*
10:00 - 10:30	Fakher Assaad	*Bilayer Hubbard model for ^{3}He: a cluster dynamical mean-field study*
10:30 - 11:00	coffee break	
11:00 - 11:30	Michael Potthoff	*Accessing thermodynamics from dynamical cluster-embedding approaches*
11:30 - 12:00	Andrew Millis	*Optical Response in Cluster Dynamical Mean Field Theory: Vertex corrections and comparison to data*
12:00 - 13:30	lunch break	
Chair: Alexander Lichtenstein		
13:30 - 14:00	Frank Lechermann	*Realistic low-energy approach to strongly correlated systems: the LDA+slave-boson method*
14:00 - 14:30	Jan Kunes	*From a fluctuating to an intermediate valence: Yb under pressure*
14:30 - 15:00	coffee break	
15:00 - 15:30	Andreas Läuchli	*Krylov implementation of the hybridization expansion impurity solver*
15:30 - 16:00	Evgeny Kosik	*Diagrammatic Monte Carlo for the Hubbard Model*