

Second Workshop

Ordering Phenomena in HTSC

November 4 – 5, 2004 Munich Residence

Bayerische Akademie der Wissenschaften
Marstallplatz 8
D-80539 München

Programm

Length of talks: 25 min + 5 min discussion

Thursday, November 4, 2004

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| 9:45 | R. Hackl: Opening |
| 9:55 | H. Nöth (President of the Academy): Welcome |
| 10:00 | N. Hussey: <i>The corrupt fermiology of high-T_c cuprates</i> |
| 10:30 | C. Di Castro: <i>Fluctuating charge order in the cuprates</i> |
| 11:00 | L. Tassini: <i>Raman scattering from charge ordering fluctuations in cuprates</i> |
| 11:30 | L. Alff: <i>Pseudogap behavior in strongly underdoped electron doped high-temperature superconductors</i> |
| 12:30-14:00 | Lunch |
| 14:00 | A. Erb: <i>Status of sample preparation</i> |
| 14:30 | G. Uhrig: <i>Magnetic excitations in modulated phases of high-temperature superconductors</i> |
| 15:00 | M. Grilli: <i>A theory of the isotope effect in the photoemission spectra of high-T_c superconducting cuprates</i> |
| 15:30 | C. Bernhard: <i>Spectral weight redistribution in the c-axis response of $YBa_2Cu_3O_{6-x}$ from spectral ellipsometry</i> |
| 16:00-18:00 | Coffee + Poster Session |
| 19:30 | Dinner: Schneiderhaus |

Friday, November 5, 2004

- 9:00 S.V. Borisenko: *Evidence for the strong interband scattering in superconducting cuprates as seen by ARPES*
- 9:30 D. Manske: *Elementary excitations in hole- and electron-doped cuprates: kink and resonance peak*
- 10:00 E. Arrigoni: *Are the electron-phonon and the spin fluctuation mediated pairing potentials enhanced or suppressed by vertex corrections?*
- 10:30-11:00 Coffee break
- 11:00 B. Büchner: *O-NMR studies on stripe ordering cuprates*
- 11:30 M. Vojta: *Bond charge order in doped Mott insulators*
- 12:00 V. Hinkov: *Testing stripe theories: the in-plane geometry of magnetic excitations in YBa(2)Cu(3)O*
(6+x)
- 12:30-14:00 Lunch
- 14:00-16:00 **Meeting of the Unit members**

Poster Session

Thursday, November 4, 2004, 15:30-18:00

(Maximum poster size: 93 cm wide and 133 cm high)

1. B. Welter, L. Alff, Y. Krockenberger, M. Naito and R. Gross

Doping dependence of pseudogap and superconductivity in electron doped high-temperature-superconductors: results from tunnelling spectroscopy

2. Li Yu, C. Bernhard

Spectral weight redistribution in the c-axis response of $YBa_2Cu_3O_{6-x}$ from spectral ellipsometry

3. J. Haase, B. Büchner, N.J. Curro, H.-J. Grafe, M. Kozlov, K.H. Müller

New NMR for HTSC research

4. V. B. Zabolotnyy, S. V. Borisenko, A. A. Kordyuk, J. Geck, M. Knupfer, J. Fink, B. Büchner

Investigation of HTSC with ARPES using angular polarized light

5. J. Fink, S.V. Borisenko, A.A. Kordyuk, A. Koitzsch, B. Büchner, M. Knupfer

On the dressing of the charge carriers of high- T_c superconductors at the hot spots

6. A. V. Boris, N. N. Kovaleva, O. V. Dolgov, T. Holden, C. T. Lin, B. Keimer, and C. Bernhard

Superconductivity-induced transfer of in-plane spectral weight in cuprate high- T_c superconductors