



Young Scientists Workshop 2004

June 10-13, 2004, Reimlingen

Program



Thursday, June 10, 2004

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|---------------|---|---|
| 10:00 | Meeting at Augsburg station, platform 3 Nord | |
| 10:27 | Leave from Augsburg station | |
| 11:33 | Arrival at Nördlingen station, bus transfer to Reimlingen | |
| 12:30 | Check-in at Bildungshaus St. Albert | |
| 13:00 | Lunch | |
| 14:15 | Krimmel, Eyert | Welcome |
| 14:30 - 15:15 | Götzfried | Hexagonal Perovskites and Related Structures |
| 15:15 - 16:00 | Laschinger | Magnetic Chains in $\text{Ca}_3\text{Co}_2\text{O}_6$ |
| 16:00 - 16:30 | Coffee | |
| 16:30 - 17:15 | Aliaga | Novel Algorithm for 3D Manganites |
| 17:15 - 18:00 | Fichtl | Dielectric Spectroscopy and its Application to Transition-Metal Chalcogenides |
| 19:00 | Dinner | |

Friday, June 11, 2004

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| 08:00 | Breakfast | |
| 09:00 - 09:45 | Schrupp | Polaronic Physics of Magnetite |
| 09:45 - 10:30 | Leonov | Charge and Orbital Order in Fe_3O_4 |
| 10:30 - 11:00 | Coffee | |
| 11:00 - 11:45 | Schneider | Bipolaron Formation: A Comparison of the Hubbard-Holstein and the $E \otimes \beta$ -Jahn-Teller-Hubbard Model |
| 11:45 - 12:30 | Mocanu | Finite Size Bosonization and Self-Consistent Harmonic Approximation |
| 13:00 | Lunch | |

Afternoon *Trip to Nördlingen*

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| 19:00 | Dinner | |
| 20:00 - 20:45 | Eickerling | Occurrence and Consequences of Charge Concentrations in Transition Metal Oxides |
| 20:45 - 21:30 | Körting | Interface-Mediated Pairing in Field Effect Devices |

Saturday, June 12, 2004

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|---------------|------------------|--|
| 08:00 | Breakfast | |
| 09:00 - 09:45 | Weber | The Grain Boundary Problem and its Possible Solution for Applications in High- T_c Superconductors |
| 09:45 - 10:30 | Lee | Quantum Phase Transitions in Models of Magnetic Impurities |
| 10:30 - 11:00 | Coffee | |
| 11:00 - 11:45 | Sellier | Josephson Tunneling Through a Quantum Dot |
| 11:45 - 12:30 | Lobaskin | Crossover from Non-Equilibrium to Equilibrium Behavior in the Time-Dependent Kondo Model |
| 13:00 | Lunch | |
| 14:30 - 15:15 | Schwingenschlögl | Electronic Structure of Vanadium Oxides |
| 15:15 - 16:00 | Keller | Realistic Modelling of Strongly Correlated Systems in LDA+DMFT |
| 16:00 - 16:30 | Coffee | |
| 16:30 - 17:15 | Ren | The Self-Consistent LDA+DMFT Scheme in Wannier Representation |
| 19:00 | Dinner | |

Sunday, June 13, 2004

| | | |
|---------------|------------------------------------|---|
| 08:00 | Breakfast | |
| 09:00 - 09:45 | Rudolf | Optical Spectroscopy of Transition Metal Oxides |
| 09:45 - 10:30 | Hoinkis | Mott Transition at the Surface of $1T$ -TaSe ₂ Studied by Angle-Resolved Photoemission |
| 10:30 - 11:00 | Coffee | |
| 11:00 - 11:30 | Kimmel, Eyert | Closing remarks |
| 12:00 | Lunch | |
| 13:00 | Bus transfer to Nördlingen station | |
| 14:15 | Leave from Nördlingen station | |
| 15:29 | Arrival at Augsburg | |

