

Wednesday, September 24, 2008

- 9:00 – 9:45 **Peter Hänggi**, University of Augsburg, Germany
Quantum work relations
- 9:45 – 10:15 Coffee break
- 10:15 – 11:00 **Sebastian Deffner**, University of Augsburg, Germany
Nonequilibrium work distribution of a quantum harmonic oscillator
- 11:00 – 11:45 **Ferdinand Schmidt–Kaler**, University of Ulm, Germany
Employing trapped cold ions to verify the quantum Jarzynski equality
- 12:30 Lunch
- 14:00 – 15:00 **Free discussion**
- 15:00 – 15:45 **Hans Briegel**, University of Innsbruck, Austria
Entanglement dynamics in open dissipative systems
- 15:45 – 16:15 Coffee break
- 16:15 – 17:00 **Fernando Galve**, University of Augsburg, Germany
Optimal nonequilibrium entanglement of nanomechanical oscillators
- 17:00 – 17:45 **Eva Weig**, LMU Munich, Germany
Charge transport and nonlinear response of a nanomechanical shuttle

Thursday, September 25, 2008

- 9:00 – 9:45 **Stefanie Hilt**, University of Augsburg, Germany
System-bath entanglement in nanothermodynamics
- 9:45 – 10:15 Coffee break
- 10:15 – 11:00 **Janet Anders**, University College London, UK
Thermal state entanglement in harmonic lattices
- 11:00 – 11:45 **Pavel Bushev**, University of Ulm, Germany
Cryogenic experiments with trapped electrons
- 12:30 Lunch
- 14:00 – 15:00 **Free discussion**
- 15:00 – 15:45 **Günter Mahler**, University of Stuttgart, Germany
Quantum Thermodynamic Processes
- 15:45 – 16:15 Coffee break
- 16:15 – 17:00 **Raoul Dillenschneider**, University of Augsburg, Germany
Improving thermodynamic efficiency with quantum correlations