



UNIVERSITÀ DEGLI STUDI
DI TRENTO
Dipartimento di Fisica



INO-CNR
ISTITUTO
NAZIONALE DI
OTTICA



Joint Meeting Trento-Munich

Monday 12 March 2012

University of Trento, Polo F. Ferrari, via Sommarive 5, Povo (room A105)

9.30 -10.30 **Prof. Antoine Georges** -*Collège de France*
Quantum Phases of Cold Fermions in Optical Lattices: Cooling and Spectroscopy

10.30-11.00 *Break*

11.00 -12.00 **Prof. Immanuel Bloch** -*Ludwig Maximilian University, Munich*
Probing and Controlling Quantum Matter at the Single Atom Level

12.30 *Lunch break*

14:00-14:20 **Ulrich Schneider** -*Munich*
Negative Absolute Temperatures in the Bose Hubbard Model

14:20-14:40 **Iacopo Carusotto** -*Trento*
Quantum Fluids of Light

14:40-15:00 **Simon Fölling** -*Munich*
Rare Earth Atoms for Many-Body Physics: Ultracold Ytterbium

15:00-15:20 **Li Yun** -*Trento*
Quantum Tri-Criticality and Phase Transitions in Spin-Orbit Coupled BECs

15:20 - 15:50 *Break*

15:50-16:10 **Christoph Gohle** -*Munich*
The Long Route Towards Ultracold Ground State NaK Molecules

16:10-16:30 **David Papoual** -*Trento*
Increasing Quantum Degeneracy by Heating a Superfluid

16:30-16:50 **Christian Gross** -*Munich*
Ongoing Projects on the Quantum Gas Microscope Experiment

16:50-17:30 Discussion

17:30 *Departure*

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