



UNIVERSITÀ DEGLI STUDI DI TRENTO

Dipartimento di Fisica



INNSBRUCK - TRENTO Joint Meeting on QUANTUM GASES

Trento (29 – 30 September 2014)

Organized by

Francesca Ferlaino (Innsbruck) and Sandro Stringari (Trento)

List of Participants:

Innsbruck	Trento
<ul style="list-style-type: none">• Rudolf Grimm• Francesca Ferlaino• Hanns-Christoph Nägerl• Kiyotaka Aikawa• Marko Cetina• Isabella Fritsche• Michael Gröbner• Lukas Reichsöllner• Philipp Hauke• Bo Huang• Michael Jag• Emil Kirilov• Rianne Lous• Manfred Mark• Florian Meinert• Silva Mezinska• Tadas Pyragius• Cornee Ravensbergen• Slava Tzanova• Andreas Schindewolf	<ul style="list-style-type: none">• Sandro Stringari• Franco Dalfovo• Lev Pitaevskii• Stefano Giorgini• Gabriele Ferrari• Giacomo Lamporesi• Iacopo Carusotto• Alessio Recati• Chiara Menotti• Riccardo Rota• Tomoki Ozawa• Marta Abad Garcia• David Papoular• Marek Tylutki• Hannah Price• Pierre Elie Larrè• Luis A. Pena Ardila• Giovanni Martone• Grazia Salerno• Alberto Sartori• Simone Donadello• Simone Serafini• Giulia De Rosi



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SCIENTIFIC PROGRAM

Monday, September 29th (Room A 222, Polo Ferrari, Povo)

- 10.30 – 11.00 **Welcome and coffee** (*University cafe* – Polo Ferrari)
- 11.00 – 12.00 **K. Aikawa/M. Mark**
Dipolar quantum gases [strongly magnetic BEC and degenerate Fermi gases, optical lattice]
- 12.00 – 13.00 **S. Giorgini**
Quantum Monte Carlo methods for cold atoms [dipolar fermions and bosons in single and bilayer configurations, the Bose polaron problem]
- Lunch* (*Aula studio* – Polo Ferrari)
- 14.30 – 15.45 **M. Cetina/ R. Grimm**
Fermi-Fermi mixtures [polarons, impurities, quench dynamics]
- 15.45 – 16.45 **S. Stringari/A. Recati**
Coherence and superfluidity in quantum mixtures [Bose mixtures with coherent coupling, spin-orbit BEC's, Bose-Fermi superfluid mixtures]
- Coffee Break*
- 17.15 – 17.45 **L. Reichsöllner**
Bose-Bose mixtures [ground state polar molecules, optical lattice]



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Tuesday, September 30th (ECT*, Villa Tambosi, Villazzano)

09.00 – 10.15

G. Lamporesi/ D. Papoular

Experiments in Trento [defect dynamics, transport phenomena]

10.15 – 10.45

F. Meinert

Bosons in optical lattice [Bose-Hubbard model; quench dynamics]

Coffee Break

11.15 – 12.00

P. Hauke

Many-body localization and ergodicity [spin systems with long-range interactions]

12.00 – 12.45

I. Carusotto

Quantum fluids of light [from superfluid light towards quantum Hall liquids]

Lunch (Villa Tambosi)