

# Joint Meeting Innsbruck-Trento on Ultracold Bose and Fermi Gases

*Erwin-Schrödinger Saal (IQOQI) Innsbruck, November 30th, 2007*

## Programme

### Morning Session:

- 10.00-10.30** Coffee and get-together
- 10.30-11.00** **Ingrid Bausmerth (Trento)**  
“Breaking resonant superfluidity at  $T=0$  by rotation”
- 11.00-11.30** **Stefan Riedl (Innsbruck)**  
“A rotating strongly interacting Fermi gas”
- 11.30-12.00** **Michael Urban (Orsay)**  
“Temperature effects in collective modes of superfluid trapped Fermi gases”

*Lunch break*

### Afternoon Session:

- 14.00-14.30** **Devang S. Naik (Innsbruck)**  
“Exploring an ultracold Fermi-Fermi mixture: Interspecies Feshbach resonances and scattering properties of  $6\text{Li}$  and  $40\text{K}$ ”
- 14.30-15.00** **Sebastiano Pilati (Trento)**  
“Phase separation in a polarized Fermi gas at zero temperature”
- 15.00-15.15** **Karl Pilch (Innsbruck)**  
“Heteronuclear Feshbach resonances in a mixture of ultracold  $\text{Rb}$  and  $\text{Cs}$ ”

*Coffee break*

- 15.45-16.15** **Mattias Gustavsson (Innsbruck)**  
“Controlling Interaction-Induced Dephasing of Bloch Oscillations”
- 16.15-16.45** **Luca Pezzè (Trento)**  
“Entanglement, Non-Linear Dynamics and Heisenberg Limit with Bose-Einstein Condensates”
- 16.45-17.15** **Selim Jochim (Heidelberg)**  
“Towards a mesoscopic ensemble of ultracold fermions”
- 17.15-17.45** **Iacopo Carusotto (Trento)**  
“The non-equilibrium Bose-Einstein condensation phase transition in microcavity polariton systems”

**18.30**

*City tour*

**19.30**

*Meeting dinner at the Gasthof Gruber (Innrain 22)*