



## Workshop

# 'Ultracold few-body systems and confinement-induced processes'

17th - 18th November 2011

Center for Optical Quantum Technologies,  
University of Hamburg



# Program

Thursday, 17<sup>th</sup> Nov.

- 08:55     *Peter Schmelcher*: introductory words
- 09:00     *Elmar Haller*:  
'Scattering resonances and transport in quasi  
          one-dimensional gases'
- 10:15     *Vladimir Melezhik*:  
'Multichannel confinement-induced processes in  
          harmonic waveguides'
- 11:15     *Panagiotis Yannakeas*:  
'Resonant d-wave scattering in harmonic  
          waveguides'
- 12:00     Lunch
- 14:00     *Jacob Sherson*:  
'Towards quantum computation and atomtronics  
          in optical lattices'
- 15:15     *Lushuai Cao*:  
'Interaction-driven interband tunneling of bosons  
          in the triple well'
- 16:00     *Budhaditya Chatterjee*:  
'Tunneling dynamics of strongly correlated  
          binary bosonic mixture'
- 18:00     Pizza Party

*Friday, 18<sup>th</sup> Nov.*

- 09:00     *Gerhard Zuern:*  
'Fermionisation of two distinguishable fermions'
- 10:15     *Ioannis Brouzos:*  
'Ansatz for the many body wave function in a harmonic trap. From few to many....'
- 11:15     *Alexander Itin:*  
'Semiclassical theory for quantum quenches in small Bose-Hubbard chains'
- 12:00     Lunch
- 14:00     *Christoph Petri:*  
'Directed transport, patterned deposition and density waves in spatiotemporally driven lattices'
- 14:45     Open discussion...

## Travel details

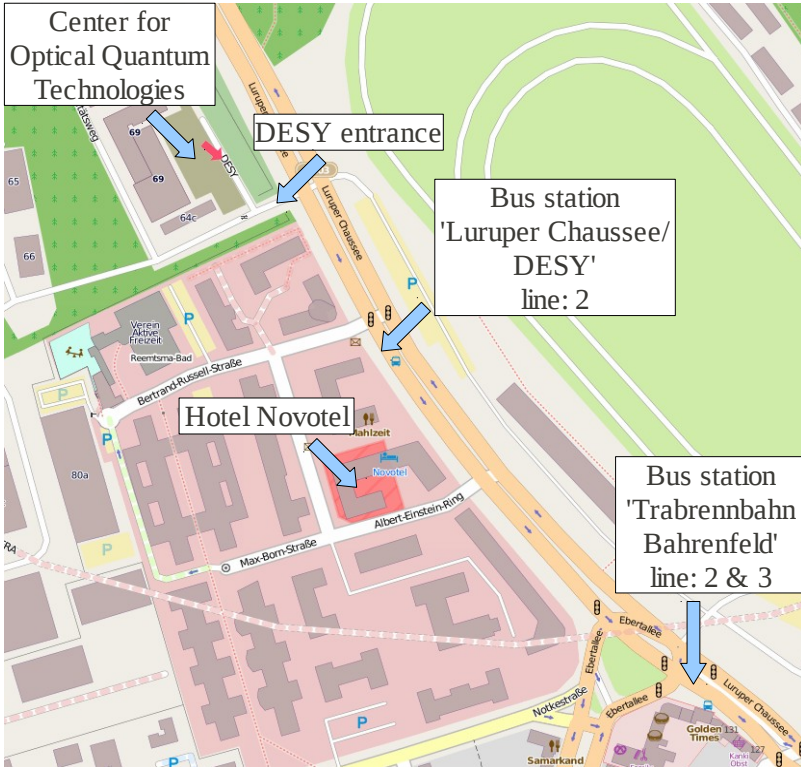
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### Contact for the case of any trouble:

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*Public transport connections:*

- from Hamburg airport
  - S1** tram, direction: Ohlsdorf or Wedel  
→ Hamburg Hbf (main station)
  - S21** tram, direction: Elbgaustraße  
→ Holstenstraße
  - 3** bus, direction: Schenefelder Platz or  
Trabrennbahn Bahrenfeld  
→ Trabrennbahn Bahrenfeld


(Hotel is sited in walking distance)

- from Hamburg main station

 tram, direction: Elbgaustraße  
→ Holstenstraße

 bus, direction: Schenefelder Platz or  
Trabrennbahn Bahrenfeld  
→ Trabrennbahn Bahrenfeld  
(Hotel is sited in walking distance)

- from train station Hamburg Altona

 bus, direction: Schenefelder Platz or  
Schenefeld, Achterndiek  
→ Luruper Chaussee/DESY  
(Hotel is sited in walking distance)