

Quantum Computing

	Mon 6.	Tue 7.	Wed 8.	Thu 9.	Fri 10.
9.00-10.30	Kraus	Kraus	Pichler	Northup	Wolf
10.30-11.00	Coffee				
11.00-12.30	Müller	Müller	Preiss	Silberhorn	Perez-Garcia
12.30-14.30	Lunch				
14.30-16.00	Wallraff	Saffman	Lab tour	Beenakker	Lab tour
16.00-16.30	Coffee		free	Coffee	free
16.30-18.00	Schilling	Northup		Perez-Garcia	
	Poster session	Dinner			

"Atzinger"
Schellingstr. 9 (19.00)

Carlo Beenakker (Leiden University):
Topological quantum computing

Barbara Kraus (TUM)
Quantum algorithms

Markus Müller (Aachen University):
Quantum error correction

Tracy Northup (Innsbruck University):
(1) *A quantum computer based on trapped ions: status and prospects*
(2) *Quantum networks: theoretical foundations, practical implementations*

David Perez-Garcia (University Complutense Madrid):
Detecting, quantifying and interpreting entanglement: (1) the bipartite case, (2) the multipartite case

Hannes Pichler (Innsbruck University):
Quantum Simulations (theory)

Philipp Preiss (MPQ):
Quantum Simulations (experiment)

Mark Saffman (Wisconsin University):
Quantum Computing with Atomic Qubit Arrays

Christian Schilling (LMU):
Applications of quantum computing for quantum chemistry

Christine Silberhorn (Paderborn University):
Scaling photonic systems for quantum information processing

Andreas Wallraff (ETHZ):
Quantum Error Correction with Superconducting Circuits

Michael Wolf (TUM):
Quantum complexity