

QI Summer School 2016 – 11–14 July 2016

In combination with the 32nd SFB FoQuS Meeting at the University of Innsbruck, 14-15 July 2016

Time	Monday 11.7.	Tuesday 12.7.	Wednesday 13.7.	Thursday 14.7.	Friday 15.7.
8:45 – 9:00		Welcome			
9:00 – 9:45		Introduction to Quantum Information (Nicolai Friis)	Quantum Information & Condensed Matter (Andreas Läuchli, tbc)	Quantum Error Correction (Christine Muschik)	
9:45 – 10:30		Introduction to Quantum Computing (Vedran Dunjko)	Introduction to Tensor Networks (Gemma De Las Cuevas)	Experiments with Quantum Networks (Florian Ong)	
10:30 – 11:00		Break	Break	Break	
11:00 – 11:45		Introduction to Quantum Simulation (Philipp Hauke)	Superconducting Qubits (Gerhard Kirchmair)	Optomechanics: Cooling the motion of massive objects with light (James Millen)	
11:45 – 13:30		Lunch Break	Lunch Break	Lunch Break	
13:30 – 14:15		Entanglement Theory (Marcus Huber)	Quantum Metrology (tba)	SFB FoQuS Meeting	
14:15 – 15:00		Ion Traps (Ben Lanyon)	Photonic Systems (Robert Keil)		
15:00 – 16:00		Break with refreshments	Break		
16:00 – 17:00		Lab Tours	Ultracold Atoms (Lauriane Chomaz)		
17:00 – 18:00		Lab Tours	Panel Discussion		
18:00 – 19:00	Registration and Get-together				
19:00 – 21:00		Evening Programme	Evening Programme		

Introductory Lecture

Theory Lecture

Experimental Lecture