

SFB - FOQUS 14./15. December 2017

Donnerstag, 14. Dezember 2017	Freitag, 15. Dezember 2017
	08:30 - 09:30 Board Meeting
	09:30 - 10:10 Rudolf Gross , Walther-Meißner-Institut
	<i>Superconducting Quantum Circuits: Basic Science Pushes Technology</i>
	10:20 – 10:40 Marie-Christine Röhsner , University of Vienna
	<i>Quantum advantage for probabilistic one-time programs</i>
	10:45 - 11:05 Lee Rozema , University of Vienna
	<i>Experimental Entanglement of Causal Orders</i>
	11:10 – 11:45 Coffee
	11:45 - 12:05 Jason Hoelscher Obermaier , University of Vienna
	<i>Quantum entanglement in cavity optomechanics</i>
12:10 - 12:30 Mariona Moreno-Cardoner , (ICFO) guest - University of Innsbruck	
	<i>Non-Linear Two-Dimensional Atomic Mirrors</i>
	12:35 - 12:55 Esteban Castro Ruiz , University of Vienna
12:00 - 12:45 SFB Registration	<i>Dynamics of Quantum Causal Structures</i>
13:00 - 13:40 Thomas Konrad , University of KwaZulu Natal	13:00 Departure
<i>Quantum Control through a Self-Fulfilling Prophecy</i>	
13:50 - 14:10 Stefan Ostermann , University of Innsbruck	
<i>Emergent Skyrmions in a two-component Bose-Einstein condensate in a ring cavity</i>	
14:15 - 14:35 Marc-Antoine Lemonde , TU Wien	
<i>Phonon networks with SiV centers in diamond waveguides</i>	
14:40 - 15:00 Phani Mupalla , University of Innsbruck	
<i>Bi-stability in a mesoscopic Josephson Junction Array Resonator</i>	
15:05 – 15:45 Coffee	
15:45 - 16:25 Vlatko Vedral , University of Oxford & University of Singapore	
<i>An entanglement-based test of quantum gravity</i>	
16:35 - 16:55 Bernhard Rauer , TU Wien	
<i>Recurrences in an isolated quantum many-body system</i>	
17:00 - 17:20 Simon Stellmer , TU Wien	
<i>Ultracold mercury for a measurement of the EDM</i>	
17:25 - 17:45 Christian Brand , University of Vienna	
<i>Test of multipath interference and conformer-selection with molecular matter-waves</i>	
17:50 - 18:10 Cornelis Ravensbergen , University of Innsbruck	
<i>Precise determination of the dynamical polarizability of dysprosium at 1064 nm</i>	
19:00 - 22:00 Dinner	