



Center for Integrated Quantum Science and Technology

IQST Day Program | October 12th, 2016

University of Stuttgart, Pfaffenwaldring 57, Hörsaal 57.03

Poster Session

1	Johannes Schmidt	j.schmidt@physik.uni-stuttgart.de	5. Physikalisches Institut & Institut für Großflächige Mikroelektronik / Stuttgart	Towards a shotnoise limited optogalvanic vapor cell
2	Julian Haas, Mario Schwartz, Ulrich Rengstl	julian.haas@uni-ulm.de	Institut für Halbleiteroptik und Funktionelle Grenzflächen & Institute of Analytical and Bioanalytical Chemistry / Stuttgart & Ulm	NOON-SENS: Quantum sensing of biomolecules with NOON states
3	Katharina Bader	k.bader@ipc.uni-stuttgart.de	Institut für Physikalische Chemie / Stuttgart	Chemical Influences on Quantum Coherence in Potential Molecular Qubits
4	Jonathan Zoller	jonathan.zoller@uni-ulm.de	Institute of Complex Quantum Systems & Institut für Mess-, Regel- u. Mikrotechnik / Ulm	Optimal Quantum Engineering
5	Krzysztof Jachymski	jachymski@itp3.uni-stuttgart.de	Institut für Theoretische Physik 3 / Stuttgart	Three-body interactions of slow light Rydberg polaritons
6	Durga B Rao Dasari	d.dasari@physik.uni-stuttgart.de	3. Physikalisches Institut / Stuttgart	Heralded Control of Quantum Systems
7	Pietro Silvi	pietro.silvi@uni-ulm.de	Institute of Complex Quantum Systems / Ulm	Finite-density phase diagram of a (1 + 1)-d non-abelian lattice gauge theory with tensor networks
8	Matthias Paul	m.paul@ihfg.uni-stuttgart.de	Institut für Halbleiteroptik und Funktionelle Grenzflächen & Institut für Nano- und Mikroelektronische Systeme (INES) / Stuttgart	Quantum dots on silicon platform: new approach of telecom light for sensing applications
9	Samuel Lenz	samuel.lenz@ipc.uni-stuttgart.de	Institut für Physikalische Chemie / Stuttgart	Molecular Quantum Bits
10	Stefan Häußler	stefan.haeussler@uni-ulm.de	Institute of Quantum Optics & Institut für Elektronische Bauelemente und Schaltungen, Institut für Quantenoptik / Ulm	Research on color centers in diamond for emerging quantum technology applications
11	Julia Michl	j.michl@physik.uni-stuttgart.de	3. Physikalisches Institut / Stuttgart	Precision measurements of electric fields
12	Felix Börrnert	felix.boernert@uni-ulm.de	Electron Microscopy Group of Materials Science	Transmission electron microscopy at very low energies
13	Ressa Said	ressa.said@uni-ulm.de	Institute of Complex Quantum Systems / Ulm	Closed-loop optimal control for diamond based quantum sensing
14	Alexander Friedrich	alexander.friedrich@uni-ulm.de	Institut für Quantenphysik & Institut für Zahlentheorie und Wahrscheinlichkeitstheorie / Ulm	Matter wave based interferometry and gyroscopes
15	Sebastian Weber	weber@itp3.uni-stuttgart.de	Institut für Theoretische Physik 3 / Stuttgart	Topological bands in cold gases
16	Matthias Wenzel	m.wenzel@physik.uni-stuttgart.de	5. Physikalisches Institut / Stuttgart	Self-bound droplets of a dilute magnetic quantum liquid
17	Matthias Niethammer	m.niethammer@physik.uni-stuttgart.de	3. Physikalisches Institut / Stuttgart	Vector magnetic field sensing using defect spins in 4H silicon carbide
18	Jens Anders	jens.anders@uni-ulm.de	Institute for Microelectronics / Ulm	Coupled oscillator arrays as B1 sources
19	Christian Ast	c.ast@fkf.mpg.de	Nanoscale Science Department / MPI-FKF	Sensing the Quantum Limit in Scanning Tunneling Spectroscopy
20	Moritz Fischer	m.fischer@pi4.uni-stuttgart.de	4. Physikalisches Institut / Stuttgart	Rydberg excitons in artificially grown cuprous oxide Cu ₂ O
21	Tobias Kampschulte	tobias.kampschulte@uni-ulm.de	Institut für Quantenmaterie & Institut für Theoretische Chemie / Ulm	Cavity-controlled ultracold chemistry
22	Michael Kinyanjui	michael.kinyanjui@uni-ulm.de	Helmholtz Institute Ulm (Energy)	Atomic and electronic structure of low-dimensional materials and heterostructures
23	Liam McGuinness	liam.mcguinness@uni-ulm.de	Institute of Quantum Optics / Ulm	Improving the precision of quantum metrology for nanoscale NMR
24	Jian Cui	jian.cui@uni-ulm.de	Institut für komplexe Quantensysteme / Ulm	optimal control of ultra-cold Rydberg atoms in optical lattice
25	Ivan Mirgorodskiy, Asaf Paris-Mandoki, Christoph Tresp, Sebastian Hofferberth	i.mirgorodskiy@physik.uni-stuttgart.de	5. Physikalisches Institut / Stuttgart	Quantum nonlinear optics mediated by strong Rydberg interactions
26	Qiong Chen	qiong.chen@uni-ulm.de	Institute of Theoretical Physics / Ulm	Resonance-inclined optical nuclear spin polarization of liquids in diamond structures
27	Matthias Widmann	m.widmann@physik.uni-stuttgart.de	3. Physikalisches Institut / Stuttgart	Electrical Switching of Single Silicon Vacancies in Silicon Carbide
28	Helmut Fedder, Michael Schlagmüller	helmut@fedder.net, michael@swabianinstruments.com	Swabian Instruments/Stuttgart	Software defined digital data acquisition



