

Poster Session

1. Braid Group Representations and Quantum Computation
Andre Ahlbrecht
2. Setting up an Improved Single Photon Source
Jörg Bochmann, Martin Mücke
3. Secure experimental generation of random bit-strings
Edouard Brainis
4. Towards the manipulation of a single-atom array using optical tweezers
Lukas Brandt, Cecilia Muldoon, Axel Kuhn
5. Bosons in a one-dimensional delta-split trap
Thomas Busch
6. Spin squeezing experiments in a cold ensemble of 87 Rb
Sebastian de Echaniz
7. Atom-surface interactions: carbon nanotubes, atom chips and superconducting surfaces
Rachele Fermani
8. Controlled Superposition of degenerate quantum states: Concept and experimental implementation
Ruth Garcia Fernandez
9. Quantum walks with decoherence
Annette Gattner
10. Quantum transport of single neutral atoms
Michal Karski, Wolfgang Alt, Daniel Döring, Leonid Förster, Arne Härtner
11. Probing quantum phases of ultracold atoms in optical lattices by transmission spectra in cavity QED
Christoph Maschler
12. Quantum Cryptography with increased error rates in a four-dimensional Hilbert space
Michael Murphy
13. Quantum Light States Engineering via Quantum Feedback Control
Antonio Negretti
14. Detection and manipulation of cold atoms using micro-optics
Sile Nic Chormaic, Michael Morrissey

15. A Scanning Electron Microscope for Ultracold Atoms
Herwig Ott
16. Quantum engineering of photon states with atomic ensembles
Diego Porras
17. Trapping and observing single strongly-coupled atoms in the dark
Thomas Puppe, Ingrid Schuster
18. Mesoscopic Coherent Quantum Dynamics in the Strong Blockade Regime
Ulrich Raitzsch
19. Quantum Phase Gate Operation Based on Nonlinear Optics: Full Quantum Analysis
Stojan Rebic
20. Localization of ultracold bosons in optical lattices
Tommaso Roscilde
21. An atom-photon pair laser
Thomas Salzburger
22. Lattice Models and Glass Models with Trapped Ions
Roman Schmied
23. Correlated tunneling of ultracold atoms in an optical lattice of double-wells
Stefan Trotzky, Ute Schnorrberger
24. Cold Ytterbium atoms in high-finesse optical cavities: towards atom-photon interfaces
Tristan Valenzuela Salazar
25. Particle number conserving quantum cellular automata and quantum walks
Holger Vogts
26. Translationally invariant quantum computation
Karl Gerd Vollbrecht
27. A single-photon server with just one atom
Bernhard Weber, Tobias Müller, Holger Specht
28. Atom-Photon Entanglement in a Cavity
Tatjana Wilk
29. 1-D Bosons in double-well traps: From condensation to fermionization
Sascha Zöllner