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## Stefan Rist, Curriculum Vitae

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### Personal information

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**Postal adress:** Theoretische Physik, Fakultät 7: Physik und Mechatronik, Campus E26, D-66041 Saarbrücken, Germany

**Phone:** +49 681 302 3044

**e-mail:** stefan.rist@physik.uni-saarland.de

**Date of birth:** 29th of april 1981.

**Citizenship:** German.

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### Current position

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- phd-student at Universitat Autònoma de Barcelona and Universität Ulm currently located at Universität des Saarlandes, Germany
  - Teaching Assistant at the Physics Department, Universität des Saarlandes since October 2009.
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### Education

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- Phd in physics within the Marie Curie training network EMALI  
Universitat Autònoma de Barcelona and Universität Ulm  
May 2007 -  
Thesis Title: Light Propagation in Ultracold Atomic Gases  
Supervisor: Prof. Giovanna Morigi, Prof. Wolfgang Schleich  
anticipated date for finishing: September 2010
- Diplom Physik, (eq. to Master in Physics)  
Universität Ulm  
October 2001-October 2006  
Thesis Title: Atom Photon Interaction in Structured Reservoirs  
Supervisor: Prof. Giovanna Morigi  
Grade 1.0 (highest mark)

- Astrophysics Honours (without final project)  
Monash University Melbourne  
February 2004-October 2004

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## Professional experience

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- internship at Schott Solar GmbH in Alzenau, Germany  
November 2006- April 2007  
Topic: Simulation of EFG-pullers for the production of wafers in the solar industry

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## Research papers

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- S.Rist, C.Menotti and G. Morigi. "Light scattering by ultracold atoms in an optical lattice". PRA **81**, 013404 (2010).
- S.Rist, P.Vignolo and G.Morigi. "Photonic spectrum of bichromatic optical lattices". PRA **79**, 053822 (2009)
- S.Rist, J.Eschner, M.Hennrich and G.Morigi. "Photon-mediated interaction between two distant atoms". PRA **78**, 013808 (2008).

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## Contributions to scientific conferences and meetings

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- Nice-BEC, June 1-4, 2010, Nice, France, Poster presented:
  - Atom counting via photon counting
- Quantum Optics, February 22-25, 2010, Obergurgl, Austria. Poster presented:
  - Atom counting via photon counting
- EMALI Young researchers meeting and mid-term meeting, March 17-24, 2009, Oxford, Great Britain. Poster presented:
  - Light scattering by ultracold atoms in an optical lattice
- DPG spring meeting, March 1-7, 2009, Hamburg, Germany. Poster presented:
  - Photonic spectrum of a bichromatic optical lattice

- Workshop on Cavity Molecular mediated cooling, February 4-8, 2009, Obergurgl, Austria. Poster presented:
  - Photonic spectrum of a bichromatic optical lattice
- EMALI young researchers meeting, May 22-24, 2008, Vienna, Austria. Poster presented:
  - Light scattering by ultracold atoms in an optical lattice
- Interf04: Coherence Squeezing and Entanglement for precision Measurements with Quantum Gases, April 3-5, 2008, Trento, Italy. Poster presented:
  - Far field dipole dipole interaction of two distant atoms
- EMALI anual meeting, October 3-5, 2007, Heraklion, Greece. Poster presented:
  - Far field dipole dipole interaction of two distant atoms
- European Young Scientists Conference on Quantum Information, August 25- September 1, 2007, Vienna, Austria. Poster presented:
  - Far field dipole dipole interaction of two distant atoms
- Workshop on Dynamics and Thermodynamics in Systems with Long Range Interactions, July 4-8 2007, Assisi, Italy. Poster presented:
  - Far field dipole dipole interaction of two distant atoms

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## Talks

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- Measuring atomic correlations via photon counting, March 10, 2010, DPG spring meeting in Hannover, Germany
- Atom counting via photon counting, September 14, 2009, EMALI anual meeting in Pisa, Italy
- Light scattering by ultracold atoms in optical lattices, March 6, 2009, DPG spring meeting in Hamburg, Germany.
- Light scattering by ultracold atoms, September 16, 2008, EMALI 2nd anual meeting in Copenhagen, Denmark.
- Light scattering by optically dense media, March 12, 2008 DPG spring meeting in Darmstadt, Germany.

- Light propagation in structured media, November 22, 2007, Group meeting of the groups of Prof. W. Schleich, Prof. T. Calarco, Prof. F. Schmidt-Kaler, Prof. E. Lutz and Prof. G. Morigi at the University of Ulm, Germany.
- Coherence of light scattered by two atoms, March 21, 2007, DPG spring meeting in Düsseldorf, Germany.

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## Schools

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- EMALI Mini School, Recent research results: Gearing up the final year of work, September 7-12, 2009, Pisa, Italy
  - Fermi-School, Nano Optics and Atomics: Transport of Light and Matter Waves, June 26-July 3, 2009, Varenna, Italy
  - EMALI Mini School, Control and engineering concepts plus experimental techniques, September 7-12, 2008, Copenhagen, Denmark
  - Les Houches Summer School, Long Range Interacting Systems, August 4-29, 2008, Les Houches, France
  - EMALI Mini School, Basic concepts and physical systems: paving the ground, September 3-7, 2007, Kaiserslautern, Germany
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## Scientific interests

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- Quantum Optics
- Light Matter Interactions
- Light propagation in Ultracold Atomic Gases
- Quantum simulation with Ultracold Atomic Gases

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## Teaching experience

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- Conducted physics tutorial for undergraduate physics students  
Universität der Saarlandes since October 2009
- Conducting physics tutorial for biology and chemistry students and  
supervision of laboratory sections for medicine students  
University of Ulm, February 2005- May 2005
- Conducted math tutorials for first and second year students  
Monash University Melbourne, August 2004-October 2004
- Correcting math exercises for first year physics students  
University of Ulm, October 2003-February 2004

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## Language skills

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- German (first language).
- English (spoken, read and written, fluent).
- Spanish (spoken, read and written, fluent).
- Italian (spoken, read and written, basic).
- French (spoken, read and written, basic).

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Place and Date

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Signature