

## Curriculum vitae

- 31.1.1966: Born in Stuttgart, Baden-Württemberg, Germany.
- October 1985-July 1992: Studies in Physics at Stuttgart, diploma ‘*with distinction.*’
- October 1992-September 1994: Employment at *Institut für Theoretische Astrophysik*, Tübingen, Germany.
  - October 1992-December 1993: Work on a textbook of General Relativity.
  - January 1994-September 1994: Work on superfluid gyroscope project.
- September 1994: Car accident; ensuing five month stay in hospital.
- September 1995-November 1998: Work on dissertation thesis.
  - September 1995-October 1996: Supported by the *Deutsche Forschungsgemeinschaft* (DFG).
  - November 1996-September 1997 and April 1998-April 1999: Scholarship of the *Landesgraduiertenförderung Baden-Württemberg*.
  - October 1997-March 1998: Research stay at the *Kylmälaboratorio*, Helsinki University of Technology, Finland. Work with Prof. Grigori E. Volovik.
  - November 1998: Thesis submitted.
- July 1999: *Rigorosum* (oral examination), final grade ‘*summa cum laude.*’
- 1999-2002: Research stays at the Low Temperature Laboratory, Helsinki University of Technology, Finland. Work with Professor Grigori E. Volovik.
- Year 2000: Research Scholarship of the DFG for Tübingen.
- 2001-May 2002: Department of Physics at the University of Illinois at Urbana-Champaign. Working with Professors A. J. Leggett and G. Baym. Research Scholarship of the DFG (April 2002-May 2002: Supported by NSF Grant).
- August 2002-October 2003: Research assistant at the University of Innsbruck, Austria. Work in the group of Prof. Peter Zoller.
- November 2003-March 2004: Postdoc Position in Tübingen.
- April 2004: C1 scientific assistant position ( $\sim$  assistant professor) in Tübingen.
- April 2004: Habilitation thesis “Inhomogeneous Bose-Einstein condensates” submitted; Referees: W. G. Unruh, G. E. Volovik, and N. Schopohl.
- November 2004: Habilitation in Theoretical Physics.
- Since September 2009: Associate Professor at Seoul National University, South Korea.

## Lectures

- 2002-2006: Lectures *per procurationem* Prof. Peter Zoller (Innsbruck), Prof. Nils Schopohl (Tübingen), and Prof. Mario Liu (Tübingen) in Quantum Mechanics, Electrodynamics, Statistical Mechanics, and Relativity.
- SS 2004, WS 2005-2006, and WS 2006-2007: Lectures on “Theory of Bose-Einstein condensates” and “Introduction to Bose-Einstein condensates.”
- SS 2006: “Thermodynamics and Thermostatistics.”
- SS 2007: “Quantum Mechanics.”
- WS 2007-2008: “Continuum Mechanics.”
- SS 2008: “Coherent Quantum Phenomena in Ultracold Atomic Gases.”
- WS 2008-2009: “Hydrodynamics and Theory of Elasticity.”
- SS 2009: “Introduction to Relativity.”
- Spring 2010: “Quantum Many-Body Phenomena: Bose-Einstein Condensates and Beyond.”
- Spring 2011 & Fall 2011: “Condensed Matter Physics 1 & 2” (Graduate).
- Spring 2012: “Classical Mechanics” (Graduate).
- Autumn 2012: Sabbatical.
- Spring 2013: “Classical Mechanics” (Graduate).
- Autumn 2013: “Statistical Mechanics” (Graduate).

## Organization of Tutorials

- SS 2005: Organization of tutorial groups in “Electrodynamics.”
- WS 2006-2007: Organization of tutorial groups in “Thermodynamics and Thermostatistics.”
- SS 2007: Organization of tutorial groups in “Quantum Mechanics” (part of *Integrierter Kurs IV*).

## Invited Talks (Selection)

- July 2005: International Workshop on “Quantum Simulations via Analogues,” Max Planck Institute, Dresden.
- November 2005: University of Duisburg-Essen, Germany, Colloquium.
- June 2007: University of Cologne, Germany, Theoretisch-Physikalisches Kolloquium.
- December 2007: University of Bonn, Germany, Kolloquium Optik und Kondensierte Materie.
- January 2008: University of Kaiserslautern, Germany, Theoretisch-Physikalisches Kolloquium.
- March 2008: University of Utrecht, The Netherlands, BEC Seminar.
- May 2008: RWTH Aachen, Germany, Colloquium.
- July 2008: Seoul National University, South Korea, Theoretical Physics Colloquium.
- December 2008: University of Leipzig, Germany, Colloquium.
- February 2009: University of Erlangen-Nürnberg, Germany, Colloquium.
- February 2009: Université de Liège, Belgium, Colloquium.
- September 2009: Technical University of Dresden, Germany, Solid State Physics Colloquium.
- January 2010: University of Hannover, Germany, Quantum Computation Colloquium.
- July 2010: University of Rostock, Germany, Theoretical Physics Colloquium.
- August 2010: Quo Vadis BEC Workshop, Max Planck Institute, Dresden, Germany.
- October 2010: Tsinghua University, Beijing, China, Institute for Advanced Study.
- February 2011: University of Mainz, Germany, Theoretical Physics Colloquium.
- May 2011: Asia Pacific Center for Theoretical Physics, Pohang, South Korea, Theoretical Physics Seminar.
- June 2011: II. Amazonian Symposium on Physics – Analogue Models of Gravity 30 Years Celebration, Belém, Brazil.
- August 2012: Quo Vadis BEC IV, Bad Honnef, Germany.
- September 2012: Quantum Technologies III. Warsaw, Poland.
- December 2012: University of Bonn, Germany, Kolloquium Optik und Kondensierte Materie.

- February 2013: NORDITA, Stockholm, Sweden, Pushing the Boundaries with Cold Atoms.

### Research Grants

- 2000: Research Scholarship of the DFG for Tübingen, Grant No. FI 690/1-1.
- 2001-2002: Research Scholarship of the DFG for Urbana-Champaign, Illinois, Grant No. FI 690/2-1.
- 2008: DFG Project “Atomic Quantum Dots in Explicitly Time-Dependent Environments”, Grant No. FI 690/3-1.
- 2009: Two year Postdoc position from the BK21 (Brain Korea) program.
- 2010: Three years grant (one Postdoc and one PhD position) from the National Research Foundation of Korea (NRF), Grant No. 2010-0013103.
- 2011: One year grant from Seoul National University for a Research Position, three years grant for a PhD position by NRF, Grant No. 2011-0029541.

### Advisor on Theses

- Diploma Thesis by Markus Flaig on “Scattering of Sound at Vortices in Perfect Fluids” (2006) [published in Phys. Rev. B **74**, 224503 (2006)].
- Diploma Thesis by Ingrid Bausmerth on “Atomic Quantum Dot Inside a Bose Josephson Junction” (2006) [together with A. Posazhennikova, Karlsruhe, published in Phys. Rev. A **75**, 053605 (2007)].
- Diploma Thesis by Philipp Bader, “Fragmentation of Bose-Einstein Condensates in the Two-Mode Model” (2008) [published in Phys. Rev. Lett. **103**, 060402 (2009)].

### Current Group

- PhD Students: Myung-Kyun Kang, Kang-Soo Lee, and Seok-Young Choi.
- Postdocs: Bo Xiong [PhD Nottingham University] and Kelly Patton [PhD University of Georgia].

Homepage: <http://solid13.tphys.physik.uni-tuebingen.de/fischer/index.html>