

Curriculum Vitae: Univ. Prof. Dr. Markus Arndt

Personal Information

date & place of birth	14.09.1965, Unkel/Rh. (Germany)
nationality	German
marital status	married, 2 children

Career development

Since 2008	Full Professor of <i>Quantum Nanophysics</i> at University of Vienna, <i>Quantum physics and nanophysics with clusters and molecules</i>
2004 - 2008	V. Professor of <i>Quantum Nanophysics</i> at University of Vienna, <i>Foundations & applications of macromolecular quantum optics</i>
2002	Docent / Ao. Univ. Prof. at University of Vienna (Habilitation) <i>Coherence & decoherence experiments with large molecules</i>
1999 - 2002	Universitätsassistent at University of Vienna, with Anton Zeilinger. <i>Fullerene interferometry</i>
1997 - 1998	Postdoc at University of Innsbruck, with Anton Zeilinger. <i>Magneto-optics with laser cooled atoms</i>
1995 - 1997	Postdoc at Ecole Normale Supérieure, Paris. with Jean Dalibard (AvH host: C. Cohen-Tannoudji). <i>Atom optics in the time domain & ultra-cold collisions</i>
1994 - 1995	Postdoc at MPQ, Garching, with A. R. Weis and T.W. Hänsch <i>Multi-photon resonances in RF spectroscopy of Cs in solid/liquid He</i>
1991 - 1994	PhD (LMU, Munich) at MPQ, Garching: with A.R. Weis and T.W. Hänsch <i>Spectroscopy of metal atoms in liquid and solid He-4</i>
1990 - 1991	Diploma Work at LMU Munich, with H. Walther <i>Chaos in Rb-Rydberg atoms</i>

Professional activities

since 2007	Speaker of the Faculty Research Group (University of Vienna) <i>Quantum optics, Quantum nanophysics and Quantum information</i>
since 2006	Speaker of the FWF funded <i>Doktoratskolleg: Complex Quantum Systems</i> (University of Vienna & Vienna University of Technology)

Awards

- 2008 Wittgenstein Prize, Ministry for Science and Research, BMWF & FWF
- 2006 Science Communication Award (3rd), Austrian Science Fund (FWF)
- 2001 START Prize, Ministry of Education, Science & Culture & (FWF)
- 2000 Fritz-Kohlrausch Prize, Austrian Physical Society (ÖPG)
- 2000 Erich-Schmid-Prize, Austrian Academy of Sciences (ÖAW), together with G. Springholz, Linz

Fellowships & Distinctions

- 2008 Member 'Junge Kurie', Austrian Academy of Sciences (ÖAW)
- 2005 Norman Hascoe Distinguished Lecture, University of Connecticut
- 1996-1997 DFG research fellowship
- 1995-1996 Alexander von Humboldt research fellowship in the Feodor-Lynen program
- 1986-1991 Fellow of the Studienstiftung des deutschen Volkes

Organization of European and international conferences (PI)

- 2007 ESF Exploratory Workshop on 'Coherence, decoherence & entanglement of non-degenerate massive quantum systems'
- 2005 Quantum Physics of Nature (QUPON 2005)
& 6th EU workshop on (QIPC 2005)
- 2003 Entanglement and Decoherence of Complex Quantum System Quantum
EU RTN meeting (2003)

Research Interests

- Quantum optics with macromolecules
- Matter wave optics and interferometry
- Decoherence of mesoscopic systems
- Coherent manipulation schemes for nanoobjects
- Beam methods for organic and inorganic clusters and macromolecules
- Cooling methods for atoms, molecules and large clusters
- Molecular nanostructures