

## Curriculum Vitae

Name Wolf Dietrich Carl von Klitzing  
Date and place of birth 24.03.1969 in Köln  
Nationality Germany  
Family Married, two children



### **Education**

18/03/1997 Doctor of Philosophy (Cambridge University)  
*'Ultra-High Resolution CO<sub>2</sub> Laser Spectroscopy and Transient Line Narrowing'*  
26/01/1993 Master of Philosophy (Cambridge University)  
*'10µm CO<sub>2</sub> Laser Spectroscopy using Acousto-Optic Modulation'*  
01/09/1991 – 30/11/1996 Cavendish Laboratory, University of Cambridge (UK)  
15/03/1989 – 31/08/1991 Ludwig Maximilians Universität München

### **Languages**

Mother tongue: German  
Fluent: English, French, Greek, Dutch  
Passive: Italian

### **Positions**

01/01/2007 – date Researcher  
IESL-FORTH, Crete, Greece  
01/05/2006 – 27/04/2010 Marie-Curie Excellence Team Leader  
IESL-FORTH, Crete, Greece  
01/01/2005 – date Principal Investigator of the BEC group  
IESL-FORTH, Crete, Greece  
01/09/2000 – 30/09/2004 FOM-Post-doctoral Fellow in the group of  
Prof. Walraven, FOM Institute for Atomic and Molecular  
Physics (AMOLF), Amsterdam, The Netherlands  
(from 01/05/2004 at the Van der Waals Zeemann  
Institute, University of Amsterdam)  
01/12/1999 – 31/08/2000 EU post-doctoral Fellow in the group of Prof. De  
Martini, Università degli studi di Roma I 'La Sapienza',  
Italy  
01/12/1996 – 30/11/1999 EU post-doctoral Fellow in the group of Prof. Haroche  
École Normale Supérieure, Paris, France

## ***Scholarships and Prizes***

08/10/2005	'Certificate of Excellence' 'Visions for Discovery in Honor of Charles H. Townes' Young Scholars Competition, University of Berkeley
07/07/1999	Best poster at Laser Spectroscopy XIV international conference for 'Green lasing in microspheres at very low pump powers'
01/03/1994 – 31/06/1994	Royal Society (UK), and Wolfson College Bursary

## ***Research Grants***

01/05/2006 – 30/03/2010	Marie-Curie Excellence Grant (MatterWaves)
01/01/2005 – 31/12/2008	Transfer of Knowledge Grant of the EU (COWATIN)
01/10/2006 – 30/09/2010	Marie Curie Research Training Network Engineering, Manipulation and Characterization of Quantum States of Matter and Light (EMALI)
01/05/2011 – 30/08/2015	ESF Research Networking Programme Common perspectives for cold atoms, semiconductor polaritons and nanoscience (POLATOM)
01/04/2008 – 30/03/2011	ESF Collaborative Research Project Quantum-Degenerate Gases for Precision Measurements EuroQUASAR (QuDeGPM)
01/10/2009 – 30/09/2011	'Mexico-Europe consortium for the development of applications in Quantum Information and Communication Technologies' FONCICYT-CONACYT fund allocation code: 94142

## ***Refereeing and Editorship***

- Guest Editor at New Journal of Physics
- Refereeing for
  - Physical Review Letters
  - Applied Physics Letters
  - The European Physical Journal D
  - Journal of Physics B: Atomic, Molecular & Optical Physics.
  - Applied Optics: Laser, Photonics & Environmental Optics
  - Journal of Applied Physics
  - World Scientific Publishing, Singapore

## ***Membership in Professional Organisations***

2002 – European and German Physical Societies  
1997-2000 French Physical society

## ***Thesis Examinations***

External Examiner of the PhD Thesis of Ben Sherlock at Oxford University (2011)  
Rapporteur for the PhD thesis of Olivier Morizot submitted the 17/01/2007 at the University of Paris (13)  
Member of the three member PhD committee of Lykourgos Bougas (2011)  
Member of the seven member PhD committee for the three PhDs Dimitris Sofikitis (15/06/2010), Giorgos Katsoprinakis (27.09.2010) and Lukas Buchmann (09.11.2010)

## ***Thesis Supervision and Teaching Experience***

From 2005 Supervision of three PhD students (U.o.Crete), two Masters (granted at U.o.Crete), one Diploma granted at Umeå Universitet, Sweden, one Diploma from the University Emden-Leer, Germany, four BSci students (U.o.Crete).  
01/11/2004 Pieter Zeeman Prize to my supervisee Tobias Tiecke for the best science diploma thesis of the University at Amsterdam in the two years 2002 and 2003  
01/09/2000 – 30/09/2004 FOM-AMOLF / University of Amsterdam (Group of Prof. Walraven)  
Supervision of a number of trainees, diploma, and PhD students  
01/09/2001 – 01/09/2002 FOM-AMOLF / University of Amsterdam  
Official co-supervisor of a diploma student  
'Bose Einstein condensation in a double magnetic well'  
01/10/1997 – 31/12/1999 École Normale Supérieure, Laboratoire Kastler Brossel,  
Supervision of diploma and PhD students  
1994 – 1995 University of Cambridge, Physics Faculty,  
Supervision of Experimental classes II (waves)

## ***Organisation of Conferences and Summer Schools***

06/04/2010 – 11/04/2010 International Conference on Frontiers of Matter-Wave Optics, FOMO-2010, in Crete.  
23/07/2007 – 27/07/2007 Onassis Lectures on Physics on Bose Einstein Condensation  
Speakers: W. Ketterle, A. Aspect, M. Inguscio, T. Köhler, T. Pfau, C. Salomon, S. Stringari, and W. von Klitzing.

- 06/05/2007 – 11/05/2007 ECAMP9: European Conference on Atomic and Molecular Physics European Physical Society (member of the local organisation committee)
- 03/07/2006 – 12/07/2006 Physics Summer School of the University of Crete (co-organiser)

### ***Lectures at Summer Schools and Workshops***

- (2) Heraklion, Jul. 2007 Onassis Lectures on Physics on Bose Einstein Condensation in honour of Prof Ketterle.  
*Trapping and Manipulating Neutral Atoms*
- (1) Heraklion, Jul. 2006 18th Summer School on Physics:  
*Bose Einstein Condensation*

### ***Invited Conference Talks and Seminars:***

- (18) Sarajevo, Jul. 2011 21th International Laser Physics Workshop:  
Seminar on Physics of Cold Trapped Atoms  
*Imaging Ultra-Low Atom Numbers for Matter-Wave Optics*
- (17) Crete, May. 2011 Conference on Cold Atoms, Semiconductor Polaritons and Nanoscience POLATOM2011  
*Imaging atoms for matter-wave interferometry*
- (16) Austria, March. 2011 International Conference on the Frontiers of Matter-Wave Optics FOMO2011  
*Atom imaging at the limits*
- (15) Athens, May. 2009 Physics Seminar of the University of Athens:  
*Bose-Einstein Condensation: Quantum Physics close to absolute Zero*
- (14) Crete, Oct. 2007 Engineering, Manipulation and Characterization of Quantum States of Matter and Light: EMALI  
*Time-Averaged Adiabatic Potentials*
- (13) Heraklion, Jul. 2006 18th Summer School on Physics:  
*Bose Einstein Condensation*
- (12) Berkeley, Oct. 2005 Finalist at the Young Scholars' Competition in the honour of Charles Townes:  
*Guided Matterwave Interferometry*
- (11) Kyoto, July 2005 Laser Spectroscopy Workshop LPHYS'05  
*Novel Coherent Matter-Wave Guides for BEC interferometers*
- (10) Dresden, October 2004 International workshop on Mesoscopic Phenomena in Ultracold Matter: From Single Atoms to Coherent Ensembles: *TAP's TOP's and quantum interference: Physics with novel magnetic traps*

- (9) Amsterdam, April 2004 Prof. Klein Colloquium  
*Cold Collisions: Hitting Condensates Hard*
- (8) Crete, December 2003 ITE-FORTH research seminar  
*Hydrodynamic BEC and novel Traps*
- (7) Hamburg, August 2003 12th annual international Laser Physics Workshop:  
*Quench-cooled quantum gasses*
- (6) Heidelberg, April 2003 Quantum Optics, Atomic and Neutron Physics Seminar  
*Bose-Einstein condensation in a hydrodynamic thermal cloud*
- (5) Hamburg, May 2003 Colloquium of the Institute for Laser-Physics  
*Bose-Einstein condensation in a hydrodynamic thermal cloud*
- (4) Lunteren, Sept. 2002 7th International Workshop on Atom Optics and Interferometry:  
*Formation of nonequilibrium Bose-Einstein condensates in elongated magnetic traps*
- (3) Lunteren, Nov. 2000 Plenary talk at the meeting of the atom and molecular physics division of the Dutch physical society:  
*Tuning whispering gallery modes: towards optical CQED with microspheres*
- (2) Heidelberg, March 1999 Plenary talk at the conference of the Deutsche Physikalische Gesellschaft (DPG):  
*A very low threshold Er<sup>3+</sup> microsphere laser*
- (1) Garching, February 1999: Max-Planck Institut für Quantenoptik:  
*Microspheres and Microlasers: Towards the strong coupling regime*

**Patents:**

- (1) V. Bolpasi and W. von Klitzing  
*A double-passed injection locked tapered laser amplifier* (Greek patent 2011)

**Peer-reviewed publications:**

- (20) G. O. Konstantinidis, M. Pappa, G. Wikström, P.C. Condylis, M. Baker, O. Morizot, and W. von Klitzing  
*Diffractive Dark-Ground Imaging of Ultra-Low Atom Numbers*  
Physical Review A (submitted)
- (19) M. Pappa, P.C. Condylis, G.O. Konstantinidis, V. Bolpasi, A. Lazoudis, O. Morizot, D. Sahagun, M. Baker, W. von Klitzing  
*Ultra-Sensitive Atom Imaging for Matter-Wave Optics*  
*An invited article for the Focus Issue on Matter-Wave Optics*  
New Journal of Physics (submitted)
- (18) V. Bolpasi and W. von Klitzing  
*Double-pass tapered amplifier diode laser with an output power of 1 W for an injection power of only 200  $\mu$ W*

- (17) I. Lesanovsky and W. von Klitzing  
*Time-Averaged Adiabatic Potentials: Versatile traps and waveguides for ultracold quantum gases*  
Physical Review Letters **99** 083001 (2007)
- (16) I. Lesanovsky and W. von Klitzing  
*Spontaneous Emergence of Angular Momentum Josephson Oscillations in Coupled Annular Bose-Einstein Condensates*  
Physical Review Letters **98** 050401 (2007)
- (15) Ch. Buggle, J. Leonard, W. von Klitzing and J.T.M. Walraven  
*Bose-Einstein condensates studied with a linear accelerator.*  
Laser Spectroscopy, E.A. Hinds, A. Ferguson and E. Riis (Eds.), **199-206**, World Scientific, Singapore (2005)
- (14) Ch. Buggle, P. Pedri, W. von Klitzing, and J.T.M. Walraven  
*Shape oscillations in nondegenerate Bose gases: Transition from the collisionless to the hydrodynamic regime.*  
Physical Review A **72**, 043610 (2005)
- (13) Ch. Buggle, J. Leonard, W. von Klitzing, and J.T.M. Walraven  
*Interferometric Determination of the s and d-Wave Scattering Amplitudes in Rb-87*  
Physical Review Letters **93**, 173202 (2004)  
Reviewed in: Kennislink (5. Nov. 2005), FOM news and Physics News Update (#707)
- (12) Ch. Buggle, I. Shvarchuck, W. von Klitzing, and J.T.M. Walraven  
*Hydrodynamic clouds and Bose-Einstein condensation*  
Journal De Physique IV **116**, 211-217 (2004)
- (11) S. Stry, L. Hildebrandt, J.R. Sacher, Ch. Buggle, M. Kemmann, and W. von Klitzing  
*Compact tuneable diode laser with diffraction-limited 1 Watt for atom cooling and trapping*  
SPIE: High-Power Diode Laser Technology and Applications II -- Volume **5336** (2004)
- (10) T.G. Tiecke, M. Kemmann, Ch. Buggle, I. Shvarchuck, W. von Klitzing, and J.T.M. Walraven  
*Bose-Einstein Condensation in a magnetic double-well potential*  
Journal of Optics B (special issue on Cold Atoms), **5** S119-S123 (2003)  
("One of the most downloaded articles of the Journal of Optics in 2003")
- (9) I. Shvarchuck, Ch. Buggle, D.S. Petrov, M. Kemmann, T.G. Tiecke, W. von Klitzing, G.V. Shlyapnikov, and J.T.M. Walraven  
*Focusing of Bose-Einstein condensates in free flight*  
in Interactions in Ultracold Gases: From Atoms to Molecules, Matthias Weidemuller & Claus Zimmermann (Editors), J. Wiley, New York (2003)
- (8) I. Shvarchuck, C. Buggle, D. S. Petrov, M. Kemmann, W. von Klitzing, G. V. Shlyapnikov and J. T. M. Walraven

- Hydrodynamic behavior in expanding thermal clouds of Rb-87*  
Physical Review A **68** 063603 (2003)
- (7) I. Shvarchuck, Ch. Buggle, D.S. Petrov, K. Dieckmann, M. Zielonkowski, M. Kemmann, T.G. Tiecke, W. von Klitzing, G.V. Shlyapnikov, and J.T.M. Walraven  
*Bose-Einstein condensation into non-equilibrium states studied by condensate focusing*  
Physical Review Letters 89-27, 270404 (2002)  
Public Reviews: Physics News Update (#620)
- (6) Wolf von Klitzing, Romain Long, Vladimir S. Ilchenko, Jean Hare, and Valérie Lefèvre-Seguin  
*Tunable whispering gallery modes for spectroscopy and CQED experiments*  
New Journal of Physics **3**, 14.1-14.14 (2001)
- (5) Wolf von Klitzing, Romain Long, Vladimir S. Ilchenko, Jean Hare, and Valérie Lefèvre-Seguin  
*Frequency tuning of the whispering-gallery modes of silica microspheres for cavity quantum electrodynamics and spectroscopy*  
Optics Letters **26:3** 166-168 (2001)
- (4) Wolf von Klitzing, E. Jahier, R. Long, F. Lissillour, V. Lefèvre-Seguin, J. Hare, J.-M. Raimond, S. Laroche  
*Very low threshold green lasing in microspheres by up-conversion of IR photons*  
Journal of Optics B **2** 204-206 (2000)
- (3) W. von Klitzing, E. Jahier, R. Long, F. Lissillour, V. Lefèvre-Seguin, J. Hare, J.-M. Raimond, S. Haroche  
*Green lasing in microspheres at very low pump powers*  
ICSSUR, 243-246 (1999)
- (2) W. von Klitzing, E. Jahier, R. Long, F. Lissillour, V. Lefèvre-Seguin, J. Hare, J.-M. Raimond, S. Laroche  
*Very low threshold lasing in Er<sup>3+</sup> doped ZBLAN microspheres*  
Electronics Letters **35:20** 1745-1746 (1999)
- (1) W. von Klitzing, B. Butcher  
*Practical issues in the development of saturation spectroscopy at ultra-high resolution*  
Measurement Science and Technology **9** 417-421 (1998)