

## Michael Walter

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CONTACT INFORMATION	Michael Walter ETH Zürich Institut für Theoretische Physik HIT K 21.3 Wolfgang-Pauli-Str. 27 8093 Zürich Switzerland	<i>Phone:</i> +41 77 222 40 45 <i>Email:</i> michael.walter@gmail.com <i>Homepage:</i> www.leetspeak.org
PERSONAL INFORMATION	born May 3, 1985, Lahr, Germany <i>Nationality:</i> German	
STATUS	Since November 2010, I am pursuing a PhD with Matthias Christandl at the Institute for Theoretical Physics at ETH Zurich, working on mathematical questions in Quantum Information Theory.	
PUBLICATIONS	<ul style="list-style-type: none"><li>– <b>Equivariant geometric <math>K</math>-homology for compact Lie group actions</b> Paul Baum, Hervé Oyono-Oyono, Thomas Schick and Michael Walter <i>Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg</i> (2010), Volume 80, Number 2, pp. 149–173.</li><li>– <b>A First-Order Logic with First-Class Types</b> Peter H. Schmitt, Mattias Ulbrich and Michael Walter <i>Tableaux 2009 Position Papers and Workshop Proceedings</i>, Research Report 387, University of Oslo, pp. 43–60.</li></ul>	
TALKS	<ul style="list-style-type: none"><li>– <b>Geometric <math>K</math>-Homology</b> at <i>Young Researchers in Mathematics</i>, Cambridge (2010)</li><li>– <b>A First-Order Logic with First-Class Types</b> at <i>Tableaux</i>, Oslo (2009) and at the <i>KeY Symposium</i>, Speyer (2009)</li></ul>	
DIPLOMA THESIS	<b>Equivariant geometric <math>K</math>-homology with coefficients</b> Michael Walter (supervisor Thomas Schick) Georg-August-Universität Göttingen, 2010.	
EDUCATION	<b>Mathematics at Göttingen</b> , Germany Diploma thesis and final examinations; graduated “with distinction”.	2009–2010
	<b>Mathematics and Computer Science at Karlsruhe</b> , Germany First seven semesters of both diploma programs.	2005–2009
	<b>Schiller-Gymnasium Offenburg</b> , Germany Grammar school	1995–2004
SCHOLARSHIPS	<b>Studienstiftung des deutschen Volkes</b> (German National Academic Foundation)	2007–2010
CONFERENCES, SCHOOLS ETC.	<ul style="list-style-type: none"><li>– <b>QCRYPT 2011</b>, First International Conference on Quantum Cryptography, Zürich (2011) — which I helped organizing</li><li>– <b>Doktorandentagung Darstellungstheorie 2011</b>, Workshop, Bonn (2011)</li><li>– <b>Schwerpunkttagung Darstellungstheorie 2011</b>, Conference, Münster (2011)</li><li>– <b>First General Meeting of the NCCR QSIT</b>, Arosa (2011)</li><li>– <b>Spectral Theory and PDE</b>, Summer School, Hannover (2010)</li><li>– <b>Quantum Theory from Small to Large Scales</b>, Summer School, Les Houches (2010)</li><li>– <b>Fourier Analysis and PDE</b>, Workshop, Göttingen (2010)</li><li>– <b>Young Researchers in Mathematics</b>, Cambridge (2010)</li></ul>	

- **Ergodic Theory of Group Actions**, Summer School, Göttingen (2009)
- **KK-Theory and its Applications**, Workshop, Münster (2009)
- **Tableaux**, Conference, Oslo (2009)
- **KeY Symposium**, Workshop, Speyer (2009)
- **Index theory, Lie groupoids and boundary value problems**, Spring School, Regensburg (2009)
- **Functional Analytic Methods in PDE**, Summer School, Hannover (2008)

OTHER **Geometry and Representation Theory of Lie Groups** **2008–2009**  
 ACADEMIC Working group of an academic “Kolleg” organised by the German National Academic Foundation, lead by Karl-Hermann Neeb and Joachim Hilgert.  
 EXPERIENCE

**Types and Logic** **2008–2009**  
 Research assistant at the Logic and Formal Methods group, Universität Karlsruhe, worked on combining first-class types with first-order logic (theoretical foundations for the KeY project).

**Computational Multi-Physics** **August 2007**  
 Visitor at the group of Hans Fangohr, University of Southampton, UK, where I worked on the micromagnetic simulation package `nmag`.

TEACHING **ETH Zürich** **since 2010**  
 EXPERIENCE Co-supervising Masters students and semester projects (Sebastian Seehars and Burak Sahinoglu) and giving exercise classes (Theoretical Mechanics, Quantum Mechanics II and Thermodynamics).

**Universität Göttingen** **2009–2010**  
 Teaching assistant in Analysis 3.

**Universität Karlsruhe** **2006–2009**  
 Teaching assistant in Linear Algebra 1, Linear Algebra 2, and Algebra 1 (twice).

PROFESSIONAL **Ubisoft Entertainment**, Montréal, Canada **2004–2005**  
 EXPERIENCE Graphics programming, research & development in realtime computer graphics (for Splinter Cell: Chaos Theory and Splinter Cell: Conviction).

**avenit ag**, Offenburg, Germany **1999–2004**  
 Technology programmer, web development.

LANGUAGES German (native speaker), advanced English (10+ years, TOEFL 297/300), basic French (5 years) and Spanish (3 years), very basic Russian