

SVEN BACHMANN

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Swiss citizen
 Born October 18, 1980

Since 2013 Professor of Mathematics – W2
 Institute of Mathematics, University of Munich (LMU), Germany

PAST POSITIONS

2013 Researcher
 Institute for Theoretical Physics, ETH Zurich, Switzerland
 2012 - 2013 Postdoctoral fellow and
 2009 - 2012 A.J. Krener Assistant Professor
 Department of Mathematics, University of California, Davis, USA
 Mentor: *Prof. B. Nachtergaele*
 2005 Assistant
 Institute of Theoretical Physics, EPF Lausanne, Switzerland

EDUCATION

2005 - 2009 Doctor of Science in mathematical physics, ETH Zurich, Switzerland
 Advisor: *Prof. G.M. Graf*
 2000 - 2005 Master of Science in physics, EPF Lausanne, Switzerland
 Advisor: *Prof. C.E. Pfister*
 2004 Master project, Department of Applied Mathematics, University of Waterloo, Canada
 Advisor: *Prof. A. Kempf*
 2002 - 2003 Study abroad year, University of Waterloo, Canada

FELLOWSHIPS, GRANTS, AWARDS

2015 ERC Starting Grant, Step 2: Interview in Brussels
 2013-2017 Participant: Elite Graduate Program *Theoretical and Mathematical Physics* within
 the Elite Network of Bavaria
 2012 NSF Grant for participation in the Young Researcher Symposium and the Interna-
 tional Congress on Mathematical Physics (ICMP12)
 2005 *Prix August Dommer* (EPFL)
 University-wide best average grade for the master program
 2002 *Prix René Cousin* (EPFL)
 Best average grade in first and second year and special abilities in mathematics

ACADEMIC TEACHING

Advisor	At LMU: Three Master theses, four Bachelor theses
LMU	Graduate level: Topologically ordered spin systems, Mathematical quantum mechanics I, Mathematical statistical physics I & II Undergraduate level: Complex analysis, Partial differential equations Seminars: Matrix analysis, Introduction to the calculus of variations, Analytic inequalities, Mathematics of the quantum Hall effect
UC Davis	Graduate level: Mathematical classical mechanics Undergraduate level: Differential equations, Calculus
ETHZ	Teaching assistant: Thermodynamics, Statistical physics, Electrodynamics, General relativity, Mechanics of continuous media, Quantum field theory
EPFL	Teaching assistant: Quantum field theory, Probability&statistics, Quantum mechanics

SELECTED INVITED TALKS

Sept '16	<i>Many-body quantum systems and effective theories</i> , Mathematisches Forschungsinstitut, Oberwolfach, Germany
Aug '16	<i>Methods of Modern Mathematical Physics, A Young Researcher Symposium on the Occasion of the 70th Birthday of Barry Simon</i> , The Fields Institute, Toronto, Canada
May '16	<i>Colloquium of pure mathematics</i> , Hamburg University, Germany
June '15	<i>Quantum Spin Systems: Recent Advances</i> , University of Cergy-Pontoise, France
June '15	<i>Quantum many-body systems, random matrices, and disorder</i> , ESI, Vienna, Austria
Sept '14	<i>Laplacians, Random Walks, Bose Gas, Quantum Spin Systems</i> , Bristol University, UK
June '14	<i>Spectral Days</i> , CIRM, Marseille, France
May '13	<i>Workshop on Analytical Aspects of Mathematical Physics</i> , ETHZ, Switzerland
Oct '12	<i>AMS Fall Western Sectional Meeting</i> , University of Arizona, Tucson, USA
Aug '12	<i>Young Researcher Symposium, ICMP12</i> , Aalborg, Denmark
Jul '11	<i>Summer School on 'Non-equilibrium Statistical Mechanics'</i> , CRM, Montreal, Canada
May '11	<i>FRG Workshop on quantum spin systems and quantum computation</i> , Harvard University, Boston, USA
Feb '11	<i>Western States Mathematical Physics Meeting</i> , Caltech, Los Angeles, USA
Dec '10	<i>First AMS-SoMaChi joint meeting</i> , Pucón, Chile
Jul '09	<i>Workshop Non-Equilibrium Phenomena - Dissipation, Decoherence, Transport</i> , ETHZ, Switzerland
Jul '08	<i>Summer School on Current Topics in Mathematical Physics</i> , ESI, Vienna, Austria

SERVICE

Referee for	Communications in Mathematical Physics Journal of the London Mathematical Society Journal of Statistical Physics Reviews in Mathematical Physics Journal of Mathematical Physics Physical Review Letters
Examiner	Two PhD committees (LMU & Warwick University)
Others	Selection committee for the master programme <i>Theoretical and Mathematical Physics</i> at LMU; Hiring committee of a Full Professor of Mathematics at LMU (2014-2015)

LANGUAGES – spoken and written

French: mother tongue

English: fluent

German: fluent