

## CURRICULUM VITAE as of January 10, 2018

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**Nationality:** German

**Date and Place of Birth:** 07.10.1966 in Heidelberg, Germany

**Positions:**

2008 – Full Professor of mathematics (W3), Universität Hamburg, Germany  
2007 Offer full professorship for Geometry, University of Göttingen (declined)  
2003 – 2008 Full Professor of mathematics (C4), Universität Hamburg, Germany  
2002 – 2003 Professor of physics (C3), RWTH Aachen, Germany  
2002 Offer tenured associate professorship, mathematics department of UC Davis (declined)  
1999 – 2002 Lecturer at the Université Pierre et Marie Curie, Paris VI  
1999 – 1999 Senior research associate at the Institute for Theoretical Physics,  
ETH Zürich, Switzerland  
1997 – 1998 Fellow at the Theory Division of CERN, Geneva, Switzerland  
1995 – 1996 Postdoctoral research fellow at the Institut des Hautes Études  
Scientifiques (IHES), Bures-sur-Yvette, France  
1986 – 1987 Military Service

**Education:**

2000 *University of Paris VI, France,*  
“Habilitation à Diriger des Recherches”  
1995 *University of Amsterdam, Amsterdam, The Netherlands,*  
Ph.D. in mathematics, Thesis advisors: R.H. Dijkgraaf and J. Fuchs  
Thesis: “Galois and simple current symmetries in conformal field theory”  
1992 – 1995 Ph.D. Research at NIKHEF, Amsterdam  
1992 *University of Heidelberg, Heidelberg, Germany,*  
Diplom (M.Sc.) in Physics, Thesis advisor: M. G. Schmidt  
Thesis (in German): “Zur Kazama-Suzuki Konstruktion  
superkonformer Quantenfeldtheorien”  
1987 – 1992 *University of Heidelberg, Heidelberg, Germany*  
Studies in Physics and Mathematics  
1977 – 1986 Kurfürst-Friedrich-Gymnasium Heidelberg, Germany  
1973 – 1977 Grundschule Heidelberg-Ziegelhausen, Germany (Primary School)

## Research Appointments:

April – June 2005:	ETH Zürich
February 2005:	Université Pierre et Marie Curie, Paris 6
September 2003:	Université Pierre et Marie Curie, Paris 6
February 2002:	Max-Planck-Institute for gravitational physics, Potsdam, Germany
April 2001 – May 2001:	Institute for Mathematics, University of Cologne, Germany
April 2000:	Participating Guest at LBNL Berkeley, CA, USA
February 1999 – April 1999:	Participating Guest at UC Berkeley, CA, USA
October 1996 – December 1996:	Participating Guest at LBNL Berkeley, CA, USA
September 1995:	Visiting Scientist at CERN, Geneva, Switzerland

## Special Activities:

December 2017	Coorganizer of the workshop “ <i>Quantum Physics meets Mathematics - a workshop on the occasion of Klaus Fredenhagen’s 70th birthday</i> ”, Hamburg
July 2017	Coorganizer of the conference “ <i>Stringmath 2017</i> ” Hamburg
July 2017	Coorganizer of the summer school “ <i>Pre-StringMath Summer School</i> ” Hamburg
June 2017	Coorganizer of the workshop “ <i>Lessons from conformal field theory</i> ” Hamburg
December 2016	Coorganizer of the workshop “ <i>New interactions between homotopical algebra and quantum field theory</i> ” at MFO Oberwolfach
September 2016	Coorganizer of the workshop “ <i>Local quantum physics and beyond</i> ” in memoriam Rudolf Haag, Hamburg, Germany
February 2015	Coorganizer of the workshop “ <i>Infinite-dimensional Structures in Higher Geometry and Representation Theory</i> ” Hamburg, Germany
August 2014	Coorganizer of the summer school “ <i>Conformal field theory and Nichols algebras</i> ” Rauischholzhausen, Germany
February/March 2014	Coorganizer of the workshop “ <i>Modern Trends in topological field theory</i> ” ESI, Vienna
March 2014	Coorganizer of the annual conference of the research priority area SPP 1388 <i>Representation theory</i> , Soltau, Germany
March 2014	Coorganizer of the workshop “ <i>Structures on Tensor Categories and Topological Field Theories</i> ”, Erlangen, Germany
September 2013	Coorganizer of the workshop “ <i>Matrix Factorizations in Algebra, Geometry and Physics</i> ”. Oberwolfach, September 2013
February 2013	Coorganizer of the workshop “ <i>Field theories with defects</i> ” Hamburg, February 2013
September 2012	Coorganizer of the workshop “ <i>From Poisson to string geometry</i> ” Erlangen, September 2012
August 2011	Coorganizer of the workshop “ <i>New perspectives in topological field theories</i> ” Hamburg, August 2012

- August 2012 Coorganizer of a parallel session at the “XIX International Colloquium on Group-Theoretical Methods in Physics”, August 2012 Tianjin, China
- October 2011 Coorganizer of the Workshop “Representation Theoretical and Categorical Structures in Quantum Geometry and Conformal Field Theory”, Erlangen
- Juni 2011 Coorganizer of the Workshop “Conformal field theories and tensor categories” at the Beijing International Center for Mathematical Research (BICMR)
- Juni 2011 Colloquium on the occasion of Ernst Witt’s 100th birthday, Hamburg
- Mai 2011 Workshop “Higher Structures in Topology and Geometry V”, Hamburg
- June 2010 Coorganizer of the workshop “Geometry, quantum fields and strings” at MFO Oberwolfach
- July 2008 Coorganizer of the conference “Noncommutative Structures in Mathematics and Physics”, satellite conference to the 5th ECM in Brussels
- July 2008 Coorganizer of the Minisymposium “Representation Theoretic Methods and Quantization” at the 5th ECM in Amsterdam
- April 2007 Organizer of the “Arbeitsgemeinschaft” at Oberwolfach on “Conformal Field Theory”
- November 2006 Coorganizer of the Colloquium “Kähler Geometry and Mathematical Physics” in Hamburg
- October 2006 Coorganizer of the opening colloquium of the Center of Mathematical Physics, Hamburg
- August 2005 Coorganizer of the Oberwolfach-Miniworkshop “Gerbes, twisted K-theory and conformal field theory”
- April 2005 Coorganizer of the Workshop: “Lessons from low dimensions - the many aspects of conformal field theory” at the University of Bonn
- February 2005 Coorganizer of the Workshop: “Geometric aspects of conformal field theory”
- Spring 2004 Coorganizer of the programm “Tensor categories in mathematics and physics” at the Erwin-Schrödinger-Institut in Vienna
- September 2003 Coorganizer of the colloquium in memoriam Peter Slodowy
- September 2000 Coorganizer of the workshop “Modularization of premodular categories” on the Ile Bailleron, France
- September 1998 Coorganizer of the workshop “Conformal field theory of D-branes” at DESY, Hamburg, Germany.
- March 1997 Coorganizer of the workshop “Verlinde formula and conformal blocks” at the ‘Mathematisches Forschungsinstitut Oberwolfach’, Germany

### **Editorship:**

- 2017 – “Communications in mathematical physics”
- 2009 – “Letters in mathematical physics”
- 2006 – “Journal of mathematical physics”
- 2006 – “Communications in Contemporary Mathematics”
- 2005 – Series “Algebra and applications” (Springer)
- 2003 – Abhandlungen aus dem mathematischen Seminar der Universität Hamburg

## Fellowships and Prizes:

2012	Prize for Mentorship of the Claussen-Simon-Foundation
2007	Gay-Lussac research prize of the French ministry of higher education
1992 - 1995	German National Merit Foundation (Studienstiftung des deutschen Volkes): Grant for PhD research
1987 - 1992	German National Merit Foundation: Fellow
January 1987	National Laureate of the German Federal Competition in Mathematics (Bundeswettbewerb Mathematik)
September 1985	<i>Prix Strasbourg</i> of the Foundation FVS, Hamburg

## Outreach:

2016/2017	Seminar series for the German National Merit Foundation on mathematical physics (March 2016, October 2016, March 2016, with Konrad Waldorf)
13.09.2016	Talk at Junge DPG <i>“What is and why do we do mathematical physics?”</i>
10.11.2015	Public talk in the colloquium on mathematical modelling <i>“Topological field theory: from categorified representation theory to quantum codes”</i>
07.11.2015	Public talk at the Night of Science <i>“Computing with braids”</i>
24.11.2011	Host at the annual Network meeting of the Alexander von Humboldt Foundation
28.11.2008	Public talk at the Science Forum Hamburg at the National Year of Mathematics <i>“Zwischen reiner Erkenntnis und Anwendungspraxis: ist die Mathematik eine Geisteswissenschaft?”</i>
07.08.2008	Mitwirkung in der Radiosendung von Peter Zaun im Deutschlandradio Kultur <i>“Alles ist Super – Mit Supersymmetrie, Superstrings und Supermathematik in neue Welten”</i>
23.02.2008	Interview im Abendjournal Spezial NDR 90,3 <i>“Verborgene Zahlen - wie Mathematik unser Leben beherrscht”</i>
16-18.02.2001	Leitung einer Arbeitsgruppe beim Stipendiaten-Treffen der Studienstiftung in Paris <i>“Deutsch-Französische Zukunftsvisionen: Mathematik und Naturwissenschaften</i>

## Teaching

1992 – 1993	Teaching assistant at the Institute for Theoretical Physics of the University of Heidelberg
First term 1997/98	“ <i>Conformal Field Theory</i> ” LMU Munich
First term 1998/99	“ <i>Boundary conditions and D-branes</i> ” ETH Zurich
Second term 1998/99	“ <i>Superstring Theory</i> ” ETH Zurich
First term 1999/00	“ <i>Advanced quantum mechanics</i> ” École Doctorale de physique de la région parisienne “ <i>Physics for mathematicians I</i> ” University Pierre et Marie Curie, Paris VI
Second term 1999/00	“ <i>Physics for mathematicians II</i> ” University Pierre et Marie Curie, Paris VI
First term 2000/01	“ <i>Advanced quantum mechanics</i> ” “ <i>Conformal Field theory for superstrings</i> ” École Doctorale de physique de la région parisienne “ <i>Physics for medical students I</i> ” “ <i>Physics for mathematicians I</i> ” University Pierre et Marie Curie, Paris VI
Academic year 2001/02	“ <i>Advanced quantum mechanics</i> ” École Doctorale de physique de la région parisienne “ <i>Physics for medical students I</i> ” University Pierre et Marie Curie, Paris VI
First term 2002/03	Lecture “ <i>Symmetries in quantum physics</i> ” RWTH Aachen, including tutorials
Second term 2003	Lecture “ <i>Algebra 1</i> ”, including tutorials Seminar “ <i>Quantum physics and geometry</i> ” University of Hamburg
First term 2003/04	Lecture “ <i>Algebra 2</i> ”, including tutorials Lecture “ <i>Lie Algebras</i> ” Seminar “ <i>Quantum physics and geometry</i> ” University of Hamburg
Second term 2004	Lecture “ <i>Quantum groups and tensor categories</i> ”, Seminar “ <i>Homological Algebra</i> ” Seminar “ <i>Quantum physics and geometry</i> ” University of Hamburg
First term 2004/05	Lecture “ <i>Algebraic number theory</i> ”, including tutorials Seminar “ <i>Reflection groups</i> ” Seminar “ <i>Quantum physics and geometry</i> ” University of Hamburg
Second term 2005	Sabbatical
First term 2005/06	Lecture “ <i>Linear Algebra I</i> ”, including tutorials Seminar “ <i>Representation theory</i> ” Seminar for teacher students Seminar “ <i>Quantum physics and geometry</i> ”

Second term 2006    Lecture “*Linear Algebra II*” including tutorials  
                          Seminar “*Algebraic Geometry*”  
                          Seminar “*Quantum physics and geometry*”

First term 2006/07    MAPLE for mathematicians  
                          Proseminar “*Linear Algebra*”  
                          Seminar “*Lie Algebras*”  
                          Seminar for teacher students  
                          Seminar “*Quantum physics and geometry*”

Second term 2007    Lecture “*Mathematical structures in physics*”  
                          Seminar “*Algebraic structures in quantum field theory*”  
                          Seminar “*Quantum physics and geometry*”

First term 2007/08    Lecture “*Linear Algebra I*”, including tutorials  
                          MAPLE for mathematicians  
                          Seminar “*Representations of finite groups*”  
                          Seminar for teacher students  
                          Seminar “*Quantum physics and geometry*”

Second term 2008    Lecture “*Linear Algebra II*” including tutorials  
                          Colloquium in Pure Mathematics  
                          Seminar “*Quantum physics and geometry*”  
                          University of Hamburg

First term 2008/09    Lecture “*Algebra II*”, including tutorials  
                          MAPLE for mathematicians  
                          Seminar “*Quantum physics and geometry*”  
                          Colloquium in Pure Mathematics

Second term 2009    Sabbatical

First term 2009/10    Lecture “*Complex calculus I*”, including tutorials  
                          Lecture “*Mathematical structures in physics*”, including tutorials  
                          Seminar “*Quantum physics and geometry*”

Second term 2010    Sabbatical

First term 2010/11    Lecture “*Advanced Algebra*”: Representation theory and homological algebra,  
                          including tutorials  
                          Seminar “*Associative Algebras*”  
                          Research seminar “*Mathematical physics*”  
                          Seminar “*Quantum physics and geometry*”

Second term 2011    Lecture “*Advanced Complex calculus*”: Modular forms and Riemann surfaces,  
                          including tutorials  
                          Lecture *Homological Algebra and applications*  
                          Research seminar “*Mathematical physics*”  
                          Seminar “*Quantum physics and geometry*”

First term 2011/12    Lecture “*Mathematical structures in physics*”, including tutorials  
                          Seminar “*Function fields and Codes*”  
                          Seminar “*Quantum physics and geometry*”

Second term 2012    Sabbatical

- First term 2012/13    Lecture “*Mathematics for physicists I*”  
                           Lecture “*Hopf algebras, quantum groups and topological field theory*”  
                           Seminar “*Quantum physics and geometry*”  
                           Research seminar “*Mathematical physics*”
- Second term 2013    Lecture “*Mathematics for physicists II*”  
                           Seminar “*Quantum physics and geometry*”  
                           Research seminar “*Mathematical physics*”
- First term 2013/14    Lecture “*Mathematics for physicists III*”  
                           Lecture “*Introduction to conformal field theory*”  
                           Seminar “*Quantum physics and geometry*”  
                           Research seminar “*Mathematical physics*”
- Second term 2014    Lecture “*Mathematics for physicists IV*”  
                           Seminar “*Quantum physics and geometry*”  
                           Research seminar “*Mathematical physics*”
- First term 2014/15    Lecture “*Hopf algebras, quantum groups and topological field theory*”  
                           Lecture “*Advanced Algebra*”: Representation theory and homological algebra,  
                           Seminar “*Quantum physics and geometry*”  
                           Research seminar “*Mathematical physics*”
- Second term 2015    Sabbatical
- First term 2015/16    Lecture “*Topology*”  
                           Seminar “*Quantum physics and geometry*”  
                           Seminar “*Presentation of scientific results*”  
                           Research seminar “*Mathematical physics*”
- Second term 2016    Lecture “*Algebraic topology*”, including tutorials  
                           Seminar “*Quantum physics and geometry*”  
                           Research seminar “*Mathematical physics*”
- First term 2016/17    Lecture “*Algebra*”, including tutorials  
                           Lecture “*Homotopical algebra and higher categories*”  
                           Seminar “*Quantum physics and geometry*”  
                           Research seminar “*Mathematical physics*”
- Second term 2017    Lecture “*Advanced Algebra*”: Representation theory and homological algebra,  
                           Seminar “*Quantum physics and geometry*”  
                           Research seminar “*Mathematical physics*”
- First term 2017/18    Lecture “*Topology*”  
                           Seminar “*Quantum physics and geometry*”  
                           Seminar “*Presentation of scientific results*”  
                           Research seminar “*Mathematical physics*”
- Second term 2018    Lecture “*Algebraic topology*”, including tutorials  
                           Seminar “*Quantum physics and geometry*”  
                           Research seminar “*Mathematical physics*”

## **Supervision:**

### Habilitations:

Ingo Runkel (University of Hamburg, 2005)  
Urs Schreiber (University of Hamburg, 2011)  
Christoph Wockel (University of Hamburg, 2018)

### PhD:

Till Barmeier (University of Hamburg, 2010)  
Alexander Barvels (University of Hamburg, 2014)  
Lukas Buhné (University of Hamburg, 2015)  
Pedro Maria da Costa Santos Bordalo (Université Pierre et Marie Curie, Paris VI, 2004)  
Jan Hesse (University of Hamburg, 2017)  
Jennifer Maier (University of Hamburg, 2011)  
Daniel Nett (University of Hamburg, 2015)  
Thomas Nikolaus (University of Hamburg, 2011)  
Jan Priel (University of Hamburg, 2016)  
Efrossini Tsouchnika (University of Hamburg, 2008)  
Johannes Walcher (ETH Zurich, 2001, with J. Fröhlich)  
Konrad Waldorf (University of Hamburg, 2007)

### Master and diploma theses:

Till Barmeier (University of Hamburg, Diploma Mathematics),  
Alexander Barvels (University of Hamburg, Diploma Mathematics)  
Sjuvon Chung (University of Hamburg, Master in Mathematics)  
Florian Conrady (University of Heidelberg, Diploma in Physics, with Michael G. Schmidt),  
Vincent Koppen (University of Hamburg, Master in Mathematical Physics)  
Jonas Haferkamp (University of Hamburg, Master in Mathematical Physics)  
Jan Hesse (University of Hamburg, Master in Mathematical Physics)  
Katarina Kring (University of Hamburg, Diploma Mathematics),  
Shadi Lemanczyk (University of Hamburg, Diploma Mathematics),  
Jennifer Maier (University of Hamburg, Diploma Mathematics),  
Alexandra Kruppa (RWTH Aachen, Diploma Physics),  
Svea Mierach (University of Hamburg, Master in Mathematics)  
Lukas Müller (University of Hamburg, Master in Mathematical Physics)  
Thomas Nikolaus (University of Hamburg, Diploma Mathematics),  
Adam Olszewski (University of Hamburg, Master in Mathematics)  
Kasper Peeters (UvA Amsterdam, Physics with J.W. van Holten)  
Jakob Salfeld-Nebgen (ETH Zurich, Master in Physics, with M. Gaberdiel)  
Linda Sass (University of Hamburg, Diploma Mathematics)  
Kemal Tezgin (University of Hamburg, Master in Mathematical Physics)  
Steffen Thaysen (University of Hamburg, Master in Mathematics)  
Maike Tormählen (University of Hamburg, Diploma Physics, with Volker Schomerus)  
Rainer Tobaben (University of Hamburg, Diploma Mathematics)  
Christopher Tropp (University of Hamburg, Master in Mathematical physics)  
Konrad Waldorf (RWTH Aachen, Physics),  
Konrad Waldorf (University of Hamburg, Diploma Mathematics)  
Niko Wilbert (RWTH Aachen, Diploma Physics)  
Lukas Woike (University of Hamburg, Master in Mathematical physics)



Bachelor Theses:

Alexander Block (University of Hamburg, Mathematics, joint with Klaus Fredenhagen, Physics)  
Xin Chen (University of Hamburg, Mathematics)  
Lennart Döppenschmitt (University of Hamburg, joint with Jan Louis, Physics)  
Sebastian Fleischer (University of Hamburg, Mathematics)  
Vincent Koppen (University of Hamburg, joint with Jan Louis, Physics)  
Simon Krause-Solberg (University of Hamburg, Mathematics)  
Robert Laugwitz (University of Hamburg, Mathematics)  
Johannes Lederich (University of Hamburg, Mathematics)  
Nils Matthes (University of Hamburg, Mathematics)  
Yannick Mogge (University of Hamburg, Mathematics)  
Carsten Muhsfeldt (University of Hamburg, Mathematics)  
Paul Neumann (University of Hamburg, Mathematics)  
Viola Pfeiler (University of Hamburg, Mathematics)  
Malin Schemschat (University of Hamburg, Mathematics)  
Leonard Schmiester (University of Hamburg, Mathematics)  
Lennart Schneider (University of Hamburg, Mathematics)  
Svenja Smarsly (University of Hamburg, Mathematics)  
Fabian Thiele (University of Hamburg, Mathematics)  
Heidi Ursula Wallon Pizarro (University of Hamburg, Mathematics)  
Cora Welsch (University of Hamburg, Mathematics)  
Jan-Ole Willprecht (University of Hamburg, Mathematics)  
Lukas Woike (University of Hamburg, joint with Jan Louis, Physics)  
Jara Wroblewski (University of Hamburg, Mathematics)  
Clemens Zeile (University of Hamburg, Mathematics)  
Pamela Zilliken (University of Hamburg, Mathematics)

Higher Education:

Charlotte Peikert  
Mareile Schulz  
Anke Tiedemann

Master theses in progress:

Yan Yang, Stefan Zetsche

PhD research in progress:

Vincent Koppen, Svea Mierach (with Y. Sommerhäuser), Tobias Ohrmann, Lukas Woike

**Grants:** (selection)

- 2002 Grant of the Ministère d'Education Nationale for the PhD-research of Pedro Bordalo
- 10/00-9/02 Marie Curie Fellowship for Ingo Runkel
- 10/02-9/04 Marie Curie fellowship for Giuseppe D'Appollonio
- 10/04-09/06 DFG priority program "*String theory*": one postdoc
- 01/05 – German-Israeli-Foundation, with Weizman Institute, Rehovot one postdoc, one PhD student
- 2005, 2010 e-learning consortium Hamburg
- 2005 Fellowship of the Rudolf and Erika Koch Foundation for a PhD student
- 05-07 DAAD Exchange project with University of Zagreb (Croatia)
- 2005-06 Host of a Humboldt fellow and Humboldt prize winner
- 2006-2018 Project leader in the DFG Collaborative reserach center "*Particles, Strings and the early Universe*: one postdoc, one PhD position
- 2008-2011 Acting host of the Emmy-Noether group "Conceptual questions of quantum gravity" (Dr. Catherine Meusburger, with one postdoc and two PhD students)
- 2008-2015 Project leader in the DFG research priority program "*Representation theory*: one PhD position
- 2011 - 2020 Project leader in the GrK 1670 "*Mathematics inspired by string theory and quantum field theory*", one PhD position, one Postdoc

**Service to the community:**

**Present:**

- Spokesperson of the research training group 1670 "*Mathematics inspired by string theory and quantum field theory*"
- Acting head of the Center for Mathematical Physics
- Member of the executive board of the research priority area SFB 676 "*Particles, Strings and the early universe*"
- Responsible for the modules Linear Algebra and Algebra
- Member of 15 hiring committees at the University of Hamburg, 4 as head of the committee

**Past**

- 2003-2008 Coordinator for service teaching for physicists
- 2003-2008 Member of the committee for the creation of bachelor and master programs
- 2003-2006 Member of the committee on structural development of the department of mathematics
- 2003-2017 in charge of the library of the mathematics department
- 2005-2008 Member of the council of the department of mathematics
- 2005-2007 Member of the faculty council of the MIN faculty
- 2006-2009 Member of the executive board of the research priority area SFB 676 "*Particles, Strings and the early universe*"
- 2009-2015 Member of the steering committee of the DFG priority program 1388 "*Representation theory*"
- 2011-2015 Deputy Spokesperson of the research training group 1670 "*Mathematics inspired by string theory and quantum field theory*"

## Invited seminars:

Argentina	Córdoba
Austria	TU Wien, Schrödinger Institut
Belgium	Ghent
Canada	Banff, Edmonton, Memorial University St. John's
China	Fudan University Shanghai
Denmark	Aarhus, Copenhagen
France	Dijon, Ecole Polytechnique, Ecole Normale Supérieure, IHES, Institut Henri Poincaré, Lille, ENS Lyon, Lyon I, Montpellier, Nantes, Orsay, CEA Saclay
Germany	Aachen, Augsburg, HU Berlin, Bielefeld, Bochum, Bonn, MPI Bonn, IU Bremen, Cologne, Darmstadt, DESY, Erlangen, Frankfurt, Freiburg, Göttingen, Hamburg, Hanover, Heidelberg, Jena, Kaiserslautern, Leipzig, Mainz, Marburg, LMU Munich, TU Munich, Münster, Paderborn, Potsdam, MPI Potsdam, Regensburg, Tübingen, Wuppertal, Würzburg
Great Britain	Cardiff, Durham Edinburgh, City University London, Imperial College London, Oxford, York
Hungary	Eötvös Lorand University, Budapest
Ireland	DIAS Dublin, Trinity College Dublin
Italy	Perugia, Rome II, Turino
Korea	Institute for basic science, Pohang
Netherlands	Universiteit van Amsterdam, Nijmegen, NIKHEF, RU Leiden, Utrecht
Norway	Kongsberg
Portugal	Porto
Russia	St. Petersburg
Sweden	Gothenborg, Karlstad, KTH Stockholm
Switzerland	CERN, Geneva, ETH Hönggerberg, ETH Zentrum, Fribourg
USA	Brandeis, UC Berkeley, UC Davis, USC Los Angeles, MIT, Princeton, UC Riverside, Rutgers, UC Santa Cruz, Simons Center, SUNY Stony Brook

## Invited talks on conferences:

String Field Theory of Landau-Ginzburg models. Institute for Basic Science, Pohang, Korea, September 2017

Boundary and Defect Conformal Field Theory: Open Problems and Applications. Royal Society, Chicheley Hall, September 2017

Modern mathematics of Quantum Theory, York, September 2017

Tensor categories and topological quantum matter, Shanghai, June 2017

Foundational and structural aspects of gauge theories, Mainz, June 2017

New interactions between homotopical algebra and quantum field theory, Oberwolfach, December 2016

Classical and quantum symmetries in mathematics and physics, Jena, July 2016

Annual meeting DMV/GAMM, Braunschweig, March 2016

Humboldt Kolleg Colloquium on algebras and representation – Quantum 16, Córdoba, Argentina, March 2016.

Higher Structures in String Theory and Quantum Field Theory, ESI, Vienna, December 2015

Higher TQFT and categorical quantum mechanics, ESI, Vienna, October 2015

Nichols algebras and their Interactions with Lie theory, Hopf algebras and tensor categories, Banff, Canada, September 2015

New developments in TQFT, Aarhus, Denmark, July 2015

Quantum Topology, Euler International Mathematical Institute, St. Petersburg, Russia, July 2015

AMS-EMS-SPM International Meeting, Porto, Portugal, June 2015

Higher Structure 2014, Geneva, Switzerland, October 2014

ESI Programme: Topological Phases of Quantum Matter, Vienna, Austria, September 2014

Homological Methods in Algebra, Geometry and Physics, London, July 2014

Group 30, Ghent, Belgium, July 2014

String-Math 2014, Edmonton, Canada, June 2014

Modern trends in topological field theory, ESI, Vienna, March 2013

Structures on Tensor Categories and Topological Field Theories, Erlangen, Germany, March 2013

Moduli, operads, dynamics, Kongsberg, Norway, July 2013

Nederlands Mathematisch Congress, Nijmegen, April 2013

Opening talk of the Bielefeld graduate school in theoretical sciences, November 2012

IV Congreso Latinoamericano de matematicos, Cordoba, Argentina, August 2012

ESI Program on K-Theory and Quantum Fields

Integrable lattice models and quantum field theories, Wuppertal, February 2012.

DMV Annual Meeting, Cologne, September 2011

Memorial Conference for Maximilian Kreuzer, Vienna, June 2011

Simons workshop on Bethe ansatz and branes, Stony Brook, March 2011

25th Nordic Network Meeting on “Strings, Fields and Branes, KTH Stockholm, March 2010

Algebraic and topological aspects of D-branes, Würzburg, December 2009  
Darstellungstheoretage, Jena, November 2009  
Lie algebras, vertex algebras and automorphic forms, Edinburgh, September 2009  
Seminar Sophus Lie, Göttingen, July 2009  
Workshop “Strings, fields and topology”, Oberwolfach, June 2009

5th European Congress of mathematics, Amsterdam, July 2008  
Colloquium in honour of Michael G. Schmidt, Heidelberg, September 2008

Conference in Mathematical Physics on the Occasion of Jürg Fröhlich’s 61st Birthday,  
Zurich, July 2007  
Joint Meeting UMI-DMV, Perugia, June 2007

Future trends in mathematical physics, Hanover, October 2006  
International congress of mathematicians, Madrid, August 2006  
18th Workshop on “Foundations and Constructive Aspects of QFT”, Hamburg, May 2006

Lie algebras, vertex operator algebras and their applications, NC state university,  
Raleigh, NC, May 2005.

Non-commutative geometry and representation theory in mathematical physics,  
Karlstad, Schweden, July 2004  
Applications of K-theory to theoretical physics, Institut Poincaré, Paris, March 2004

First RTGF Meeting (Red Temática de Geometría y Física), Madrid, November 2003  
36th International Symposium Ahrenshoop, Berlin, August 2003  
AMS Spring Meeting, Bloomington, IN, April 2003

35th International Symposium Ahrenshoop, Berlin, August 2002  
“TH-2202”, International Conference on Theoretical Physics Paris, UNESCO, 22-27 July 2002  
XXIV International Colloquium on Group Theoretical Methods in Physics, Paris, July 2002  
EuroConference “*Vector Bundles on Algebraic Curves*” VBAC 2002 Luminy, July 2002  
GDR “*Journées Lyonnaises*”, Lyon, June 2002  
Workshop on “*String Theory and Complex Geometry*”. Bad Honnef, Germany, April 2002  
6th Informal U.K. 1 day meeting on 2-dimensional integrable models, and conformal field theory.  
Oxford, April 2002

66. Annual Meeting of the German Physical Society, Leipzig , March 2002

RTN Workshop “*Conformal symmetry and strings*”, Anttila, Sweden, September 2001  
NATO Workshop “*Statistical field theories*”, Como, Italy, June 2001

“Géométrie algébrique complexe”, conference at CIRM, Luminy, November 2000  
TMR conference “*Non-perturbative quantum effects 2000*”, Paris, September 2000  
24th Johns Hopkins Workshop “*Nonperturbative QFT methods and their applications*”,  
Budapest, August 2000

XIII International Congress on Mathematical Physics, London, July 2000  
3rd European Congress of Mathematics, Barcelona, July 2000  
9th Marcel Grossmann Meeting, Rome July 2000  
“*Algebra 2000*”, Pacific Institute for the Mathematical Sciences, Edmonton, Canada, June 2000  
GDR “*Structures non perturbatives en théorie des champs et des cordes*”, ENS Lyon, May 2000

“*Non-Commutative Gauge Theory*”, Lorentz Center, Leiden, Netherlands, November 1999

“*Mesoscopic systems*”, Ascona, Switzerland, July 1999

“*Geometry and quantization of symplectic manifolds and quantum integrable systems*”

Ascona, Switzerland, July 1999

“*D-branes, vector bundles and bound states*”, IHES, Bures-sur-Yvette, June 1999

“*Conformal field theory of D-branes*”, DESY, September 1998

31st International Symposium Ahrenshoop, Buckow, September 1997

UC Lie Algebra Workshop, Santa Cruz, California, December 1996

XXVIII Summer Institute on “*String Theory and Extended Objects*,” ENS Paris, August 1996

XXI International Colloquium on Group Theoretical Methods in Physics, Goslar, July 1996

XIth International Congress of Mathematical Physics, Paris, July 1994

Symposium on Mathematical Physics, Enschede, Netherlands June 1994

Jahrestagung der Deutschen Physikalischen Gesellschaft, Hamburg, March 1994

3rd International Conference on Mathematical Physics, String Theory and Quantum Gravity,  
Alushta, Ukraine, May 1993.

Workshops at the “Mathematisches Forschungsinstitut Oberwolfach”:

- “*New interactions between homotopical algebra*”, December 2016
- “*Factorization Algebras and Functorial Field Theories*”, May 2016
- “*Subfactors and Conformal Field Theory*”, March 2015
- “*Deformation Methods in Mathematics and Physics*”, September 2010
- “*Geometry, quantum fields and strings*”, June 2010
- “*Strings, fields and topology*”, June 2009
- “*Infinite-dimensional Lie theory*”, December 2006
- “*Gerbes, twisted K-theory and conformal field theory*”, August 2005
- “*Mathematical aspects of string theory*”, April 1999
- “*Generalized Kac-Moody algebras*”, July 1998
- “*Verlinde formulae and conformal blocks*”, March 1997

Workshops at the Erwin-Schrödinger-Institut, Vienna:

- “*Higher structures in string theory and quantum field theory*”, December 2015
- “*Higher topological quantum field theory and categorical quantum mechanics*”, October 2015
- “*Topological phases of quantum matter*”, September 2014
- “*Modern trends in topological field theory*”, March 2014
- “*K-Theory and Quantum Fields*”, June 2012
- “*Quantum Field Theory on Curved Space-times and Curved Target Spaces*”, March 2010
- “*Operator Algebras and Conformal Quantum Field Theory*”, September 2008
- “*Gerbes, Groupoids and Quantum Field Theory*”, June 2006
- “*Tensor categories in mathematics and physics*”, June 2004
- “*Mathematical Aspects of String Theory*”, September 2001
- “*Duality, String Theory and M-Theory*”, April 2000
- “*Applications of integrability*”, September 1999
- “*Quantization, generalized BRS cohomology and anomalies*”, October 1998
- “*Conformal and topological field theories and integrability*”, March 1996
- “*Beyond the standard model*”, workshop in Bad Honnef, Germany, March 2001, 1997, 1995, 1994, 1993