

CURRICULUM VITAE as of September 18, 2017

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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:

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 “ <i>XIX International Colloquium on Group-Theoretical Methods in Physics</i> ”, 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 “*Gerbets, 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*”

Supervision:

Habilitations:

Ingo Runkel (Universität Hamburg, 2005)
Urs Schreiber (Universität Hamburg, 2011)

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, 2011)
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)
Konrad Waldorf (University of Hamburg, 2007)

Master theses:

Sjyvon Chung (University of Hamburg, Master in Mathematics)
Jan Hesse (University of Hamburg, Master in Mathematical Physics)
Svea Mierach (University of Hamburg, Master in Mathematics)
Lukas Müller (University of Hamburg, Master in Mathematical Physics)
Adam Olszewski (University of Hamburg, Master in Mathematics)
Jakob Salfeld-Nebgen (ETH Zurich)
Kemal Tezgin (University of Hamburg, Master in Mathematical Physics)
Steffen Thaysen (University of Hamburg, Master in Mathematics)
Christopher Tropp (University of Hamburg, Master in Mathematical physics)
Lukas Woike (University of Hamburg, Master in Mathematical physics)

Undergraduate work (Diplomarbeiten):

Till Barmeier (University of Hamburg, Mathematics),
Alexander Barvels Florian Conrady (University of Heidelberg),
Katarina Kring (University of Hamburg, Mathematics),
Alexandra Kruppa (RWTH Aachen),
Shadi Lemanczyk (University of Hamburg),
Jennifer Maier (University of Hamburg),
Thomas Nikolaus (University of Hamburg),
Linda Sass (University of Hamburg)
Maike Tormählen (University of Hamburg, joint with Volker Schomerus, Physics)
Rainer Tobaben (University of Hamburg)
Konrad Waldorf (RWTH Aachen, Physics),
Konrad Waldorf (University of Hamburg, Mathematics)
Niko Wilbert (RWTH Aachen, 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:

Jonas Haferkamp, Vincent Koppen, Stefan Zetsche

PhD research in progress:

Svea Mierach (mit Y. Sommerhäuser), Tobias Ohrmann, Lukas Woike

Joint supervision:

Kasper Peeters
(Undergraduate work, NIKHEF Amsterdam, with Dr. J.W. van Holten)
Lothar Birke, Bill Pedrini und Johannes Walcher
(PhD research, ETH Zurich, with Prof. J. Fröhlich)

Grants:

- 1997 Mathematisches Forschungsinstitut Oberwolfach:
Workshop in the programme “research in pairs”
- 1998 Grant of Volkswagenstiftung for workshop: DM 22 000
- 2000 Grant of CNRS for workshop: 10 000 FF
(complemented by a grant by the Université de Nantes and the Université de Bretagne-Sud)
- 2002 Grant of the Ministère d’Education Nationale for the
PhD-research of Pedro Bordalo: 4500 €.
- 10/00-9/02 Marie Curie Fellowship for Ingo Runkel
- 2004 Erwin-Schrödinger-Institut for mathematical physics:
45.000 € for the programme “Tensor Categories in Mathematics and
Physics” in spring 2004
- 10/02-9/04 Marie Curie fellowship for Giuseppe D’Appollonio
- 10/04-09/06 DFG Main Focus Program String theory: two postdoc years and travel money
- 01/05 – German-Israeli-Foundation, with Weizman Institute, Rehovot
three postdoc years, one year PhD student
- 02/05 – 05/05 e-learning consortium Hamburg 5000 €.
- 2005 Fellowship of the Rudolf and Erika Koch Foundation for a PhD student
- 05-07 Exchange project with University of Zagreb (Croatia), DAAD
- 2005-06 Host of a Humboldt fellow and Humboldt prize winner
- 2006-2010 Project leader in the DFG Collaborative reserach center “Particles, Strings
and the early Universe: the structure of matter and space-time”
1,5 postdoc positions
- 2010-2014 Project leader in the DFG Collaborative reserach center “Particles, Strings
and the early Universe: the structure of matter and space-time”
1 postdoc position
- 2008-2011 Acting host of the Emmy-Noether group “Conceptual questions of quantum gravity”
(Dr. Catherine Meusburger, with 1 postdoc and 2 PhD students)
- 2008-2015 Member of the board of the German research priority area representation theory
(DFG-Schwerpunktprogramm 1388 Darstellungstheorie) 1 PhD student
- 2010 e-learning consortium Hamburg: 4500 €.
- 2011 Grant for workshops by European Science Foundation: 5000€
- 2011 - 2015 Deputy Spokesman of the GrK 1670 “*Mathematics inspired by
string theory and quantum field theory*”, 1 PhD position, 1 Postdoc
- 2011 Grant for workshops by European Science Foundation: 7000€
- 2011 Grant for workshops by European Science Foundation: 5000€
- 2015 - 2020 Spokesman of the GrK 1670 “*Mathematics inspired by
string theory and quantum field theory*”, 1 PhD position, 1 Postdoc

Invited seminars:

Argentina	Córdoba
Austria	TU Wien, Schrödinger Institut
Belgium	Ghent
Canada	Banff, Edmonton
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, 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

Invited Seminars:

- 2017 *Boundary conditions and defects in low-dimensional field theories*
Workshop String Field Theory of Landau-Ginzburg models, Pohang, Korea, September 2017
- CFT with and without Boundaries: from a Holographic Picture to Logarithmic CFTs*
Boundary and Defect Conformal Field Theory: Open Problems and Applications. Royal Society, Chicheley Hall, September 2017
- Coends, a Lego-Teichmüller game and correlators in (non-)semisimple conformal field theory*
Modern mathematics of Quantum Theory, York, September 2017
- Defects in topological field theory: new tools and applications in physics*
Workshop on Tensor categories and topological quantum matter, Shanghai, June 2017
- Tensor categories and topological field theories and how to obtain them from Dijkgraaf-Witten theories*
Workshop on Tensor categories and topological quantum matter, Shanghai, June 2017
- Higher structures in Dijkgraaf-Witten theories*
Workshop on Foundational and structural aspects of gauge theories, Mainz, June 2017
- Eilenberg-Watts calculus for finite categories and a bimodule Radford S^4 theorem*
Transformation groups and mathematical physics, Jacobs University Bremen, March 2017
- A Lego-Teichmüller game for logarithmic conformal field theories*
Utrecht, The Netherlands, March 2017
- Eilenberg-Watts calculus for finite categories and a bimodule Radford S^4 theorem*
Workshop on quantum topology, Lille, France, March 2017
- 2016 *Turaev-Viro theories from non-semisimple spherical categories*
Workshop on New interactions between homotopical algebra and quantum field theory Oberwolfach, Germany, December 2016
- Defects in topological field theory: from categorical tools to applications in representation theory*
Université de Montpellier, October 2016
- Defects in topological field theory: new tools and applications in physics*
Université Paris 6, France, October 2016
- Corellators for non semi-simple CFTs*
MIT, USA, October 2016
- Defects in topological field theory: from categorical tools to applications in physics and representation theory*
Jena, Germany, July 2016
- Categorical tools for state sum constructions*
Braunschweig, Germany, March 2016
- TV theories with defects and representation theory*
Córdoba, Argentina, March 2016
- 2015 *State sum constructions of extended TFTs and defects*
Erwin Schrödinger Institute, Vienna, December 2015
- An isomorphism in representation theory and its interpretation in TFT*
University of Vienna, Austria, December 2015

Traces for bimodule categories, generalized Wilson lines and generalized onformal blocks
Erwin Schrödinger Institute, Vienna, October 2015

Conformal field theory, tensor categories and module categories
Banff, Canada, September 2015

*Surface defects in TV theories, Brauer Picard groups and some relations
representation theory*
University of Aarhus, Denmark, July 2015

TV theories with defects and representation theory
Euler International Mathematical Institute, St. Petersburg, Russia, July 2015

Invariants for mapping class group actions from ribbon Hopf algebra automorphisms
University of Leipzig, Germany, July 2015

Invariants for mapping class group actions from ribbon Hopf algebra automorphisms
University of Darmstadt, Germany, June 2015

TFT with defects and representation theory
University of Jena, June 2015

Invariants for mapping class group actions from ribbon Hopf algebra automorphisms
AMS-EMS-SPM International Meeting, Porto, Portugal, June 2015

Symmetries and defects in 3d TFT
AMS-EMS-SPM International Meeting, Porto, Portugal, June 2015

TFT with defects and representation theory
University of Potsdam, May 2015

Defects in topological field theory and an isomorphism in representation theory
University of Leipzig, May 2015

RCFT correlators and surface defects in three-dimensional topological field theory
Workshop on Subfactors and Conformal Field Theory, Mathematisches Forschungsinstitut
Oberwolfach, Germany, March 2015

2014 *Boundary conditions and defects in three-dimensional topological field theory*
University of Geneva, Switzerland, October 2014

Surface Defects, Symmetries and Dualities
Erwin Schrödinger Institute, Vienna, March 2014

Boundary conditions and defects in three-dimensional topological field theory
City University London, Great Britain, July 2014

Surface defects and symmetries
University of Ghent, Belgium, July 2014

Symmetries and defects in 3d topological field theories
Stringmath 2014, Edmonton, Canada, June 2014

Invariants for mapping class group actions from ribbon Hopf algebra automorphisms
Erwin Schrödinger Institute, Vienna, March 2014

Invariants for mapping class group actions from ribbon Hopf algebra automorphisms
University of Erlangen, Germany, March 2014

Some applications of module categories to field theories
University of Dijon, France, January 2014

- 2013 *Surface defects in topological field theories: construction, classification and applications*
University of Göttingen, Germany, November 2013
Surface defects in topological field theories: construction, classification and applications
University of Bonn, Germany, November 2013
Defects in TFTs and module categories
University of Heidelberg, Germany, July 2013
Module categories and boundary conditions for three-dimensional topological field theories
Moduli, operads and dynamics, Kongsberg, Norway, July 2013
Module categories and some of their applications to field theories
University of Bielefeld, April 2013
Module categories and some of their applications
Nederlands Mathematisch Congress 2013, Nijmegen, April 2013
The Drinfeld double: geometric and algebraic aspects
University of Nijmegen, April 2013
- 2012 *Large groups in mathematics, small scales in physics and a reason for finding integer numbers*
Opening talk of the Bielefeld graduate school in theoretical sciences, November 2012
Boundary conditions and defects in 3d TFT
University of Karlstad, Sweden, September 2012
Invariants for mapping class group actions from ribbon Hopf algebra automorphisms
IV Congreso Latinoamericano de matematicos, Cordoba, Argentina, August 2012
Bicategories for boundary conditions and surface defects in 3d TFT
LMU Munich, July 2012
Bicategories for boundary conditions and surface defects in 3d TFT
ESI Program on K-Theory and Quantum Fields, June 2012
Modular invariant Frobenius algebras from ribbon Hopf algebra automorphisms
Integrable lattice models and quantum field theories, Wuppertal, February 2012.
- 2011 *Bicategories in field theories - an invitation*
Annual meeting of the DMV, Cologne, September 2011
Bicategories in field theories - an invitation
Memorial conference for Maximilian Kreuzer, Vienna, June 2011
The Drinfeld double and some generalizations: algebraic and geometric aspects
University of Marburg, Germany, May 2011
Some tools for equivariant constructions in bicategories and their applications to conformal field theory
Simons Center, Stony Brook, USA, March 2011
Some tools for equivariant constructions in bicategories and their applications to conformal field theory
Ecole Normale Supérieure Lyon, February 2011
The Drinfeld double and some generalizations: algebraic and geometric aspects
Ecole Normale Supérieure Lyon, February 2011
Dualities and defects: lessons from the target space and from the worldsheet
Ecole Normale Supérieure Paris, February 2011

- The Drinfeld double and some generalizations: algebraic and geometric aspects*
University of Cardiff, Wales, February 2011
- 2010 *Geometric and algebraic structures for general crossed modules*
Workshop Deformation methods in mathematics and physics, Oberwolfach, September 2010
- Gerbes on Lie groupoids*
CRCG Workshop - Higher Structures in Topology and Geometry IV, Göttingen, June 2010
- Bibranes: target space geometry for worldsheet conformal defects*
KTH Stockholm, 25th Nordic Meeting on Strings, Fields and Branes, March 2010
- 2009 *Bundle gerbes, D-branes and Orientifolds*
University of Würzburg, December 2009
- Rational conformal field theory beyond semi-simplicity – challenges and puzzles*
University of Jena, November 2009
- Mapping class group representations and conformal boundary conditions*
Workshop “Lie algebras, vertex algebras and automorphic forms” Edinburgh, September 2009
- Frobenius algebras in modular tensor categories*
Summer school “Structures in Lie Representation” Jacobs University Bremen, August 2009
- The fundamental gerbe of a compact simply-connected Lie group*
Seminar Sophus Lie, Göttingen, Germany, July 2009
- CFT and algebra in braided tensor categories*
Workshop on Strings, Fields and Topology Mathematisches Forschungsinstitut
Oberwolfach, Germany, June 2009
- Bundle gerbes: A geometric framework for Wess-Zumino terms*
Mathematical Physics Colloquium Karlstad, Sweden, June 2009
- Frobenius algebras, Hopf algebras and konformal quantum field theory*
Mathematical Physics Colloquium Erlangen, May 2009
- Bundle gerbes and surface holonomy*
Mathematical Colloquium Bonn, January 2009
- 2008 *Bundle gerbes and surface holonomy*
Mathematical Colloquium Münster, October 2008
- Bundle gerbes: A geometric framework for Wess-Zumino terms*
Institute for theoretical physics, University of Heidelberg, Heidelberg, September 2008
- Modules and bimodules for bundle gerbes: Wess-Zumino terms for defects and boundaries*
Erwin-Schrödinger-Institute, Vienna, Austria, September 2008
- Bundle gerbes and surface holonomy*
5 European Congress on Mathematics, Amsterdam, July 2008
- Bundle gerbes and surface holonomy*
Mathematical physics seminar, RU Utrecht, May 2008
- Topological field theory, conformal field theory and Frobenius algebras*
Mathematics Department Göteborg, Sweden. February 2008

- Topological field theory, conformal field theory and Frobenius algebras*
Albert-Einstein-Institute, Golm, Germany. February 2008
- Topologische Feldtheorie, konforme Feldtheorie und Frobenius-Algebren*
Fachbereich Mathematik der Universität Regensburg, Germany. January 2008
- 2007 *Topological defects and duality in conformal field theory*
Università di Roma II (Tor Vergata), Italy, October 2007,
- Algebren, Bimoduln und Symmetrien*
Bundle gerbes and surface holonomy
Institut für Mathematik der Universität Göttingen, Germany. July 2007
- Algebren, Bimoduln und konforme Feldtheorie*
Institut für Mathematik der Universität Augsburg, Germany. July 2007
- Target space geometry for world sheet topological defects*
Conference in Mathematical Physics on the Occasion of Jürg Fröhlich's 61st Birthday,
Zurich, July 2007
- Frobenius algebras in tensor categories and conformal field theory*
Joint Meeting UMI-DMV, Perugia, Italy, June 2007
- Gerbe modules and gerbe bimodules*
Fachbereich Mathematik der Universität Potsdam, Germany. May 2007
- Topologische Feldtheorie, konforme Feldtheorie und Frobenius-Algebren*
Fachbereich Mathematik der Universität Bochum, Germany. Januar 2007
- 2006 *Gerbes and loop groups*
Workshop on infinite-dimensional Lie theory, Mathematisches Forschungsinstitut
Oberwolfach, Germany, December 2006
- Topologische Feldtheorie, konforme Feldtheorie und Frobenius-Algebren*
Fachbereich Mathematik der Universität Paderborn, Germany. November 2006
- Topologische Feldtheorie, konforme Feldtheorie und Frobenius-Algebren*
Fachbereich Mathematik der Universität Göttingen, Germany. November 2006
- Topologische Defekte in zweidimensionalen Feldtheorien – mathematische und physikalische Aspekte*
Fakultät für Physik und Mathematik der Universität Hannover, Germany. October 2006
- Categorification and correlation functions in conformal field theory*
ICM 2006, Madrid, August 2006
- Bimodules and braiding*
Technical University Darmstadt, Germany, July 2006
- Unoriented WZW models and holonomy of bundle gerbes*
Erwin-Schrödinger-Institute, Vienna, Austria, June 2006
- Remarks on rational conformal field theories on unoriented surfaces*
18th Workshop on “Foundations and Constructive Aspects of QFT”, Hamburg, May 2006
- Unoriented WZW models and holonomy of bundle gerbes*
Biséminaire Mathématiques-Physique, École Normale Supérieure Paris, March 2006
- Frobenius algebras, topological and conformal field theory*
Mathematics Department, Universiteit van Amsterdam, Netherlands, February 2006

- Topologische Feldtheorie, konforme Feldtheorie und Frobenius-Algebren*
 Fachbereich Mathematik der Universität Frankfurt, Germany, January 2006
- 2005 *Algèbres de Frobenius, théories topologiques et théories conformes*
 Mathematics Department, University of Fribourg, Switzerland, November 2005
- Defects and dualities in rational conformal field theories*
 Colloquium at Trinity college, Dublin, September 2005
- What are subgroups of quantum groups and why do we study them?*
 Colloquium at Technical University of Darmstadt, June 2005
- What are subgroups of quantum groups and why do we study them?*
 Colloquium at the University of Münster, June 2005
- Twining characters and Picard groups in rational conformal field theories*
 Lie algebras, vertex operator algebras and their applications, NC State University,
 Raleigh, NC, May 2005
- TFT construction of RCFT correlators – a tour through examples*
 Two talks at ETH Zürich, May 2005.
- Algebraic aspects of rational conformal field theories*
 LPTHE, Université Paris 6, March 2005
- 2004 *Picard groups in rational conformal field theory*
 Non-commutative geometry and representation theory in mathematical physics, Karlstad, Schweden, .
- Conformal field theory: questions that have been studied and questions one should ask*
 DESY colloquium, Hamburg, June 2004
- Categories and categorification in low dimensional field theories*
 Applications of K-theory to theoretical physics, Institut Poincaré, Paris, March 2004
- Algebra and representation theory in braided tensor categories*
 Mathematics Department, HU Berlin, February 2004
- 2003 *Algebras in Tensor categories and conformal field theory*
 First RTGF Meeting (Red Temática de Geometría y Física), Madrid, November 2003
- Algebras in Tensor categories and conformal field theory*
 International University Bremen, November 2003
- Algebras in Tensor categories and conformal field theory*
 AMS Spring Meeting, Bloomington, IN, April 2003
- Flux stabilization and generalized minimal surfaces*
 Altenberg workshop, Germany, February 2003
- Conformal field theory: questions that have been studied and questions one should ask*
 University of Kaiserslautern, Germany, February 2003
- Strings in Group manifolds and a generalized minimal surface problem*
 Graduiertenkolleg Mathematik, RWTH Aachen, February 2003
- Defects, boundaries and Frobenius algebras*
 DIAS, Dublin, Ireland, January 2003
- 2002 *Conformal field theory: questions that have been studied and questions one should ask*
 University of Bonn, Bonn, Germany, November 2002

Frobenius algebras in tensor categories and conformal field theory in two dimensions
Three talks in the mathematics department, RWTH Aachen, November 2002

Defects, boundaries and Frobenius algebras
35th International Symposium Ahrenschoop, Berlin, August 1997

D-branes, boundaries and defects
“TH-2202”, International Conference on Theoretical Physics Paris, UNESCO, 22-27 July 2002

Strings, symmetries and representations
XXIV International Colloquium on Group Theoretical Methods in Physics, Paris, July 2002

Vertex operators, conformal blocks and correlation functions I, II, III
EuroConference “Vector Bundles on Algebraic Curves” VBAC 2002 Luminy, July 2002

Algebras in tensor categories and conformal field theory
University of Hamburg, Germany, June 2002

Conformal field theories, Frobenius algebras and topological field theory
GDR “Journées Lyonnaises”, Lyon, June 2002

Frobenius algebras, triangulations and tensor categories
Meeting on String Theory and Complex Geometry, Bad Honnef, Germany, April 2002

Conformal correlation functions, Frobenius algebras and triangulations
6th Informal U.K. 1 day meeting on 2-dimensional integrable models and conformal field theory.
Oxford, Great Britain, April 2002

D-branes, open strings and tensor categories
66. Meeting of the German Physical Society, Leipzig, Germany, March 2002

Conformal boundary conditions and Frobenius algebras
Max-Planck-Institute for gravitational physics, Golm, Germany, February 2002

Frobenius algebras, triangulations and tensor categories
UC Davis, Davis, California, USA, February 2002

Frobenius algebras, triangulations and tensor categories
UC Santa Cruz, Santa Cruz, California, USA January 2002

2001 *Fuchsian Differential equations, Lie groups and correlation functions*
University of Tübingen, Germany, December 2001

D-branes and conformally invariant boundary conditions
Conformally invariant boundary conditions and Frobenius algebras
Boundaries, D-branes and singularities

Workshop on Mathematical aspects of string theory
Erwin-Schrödinger-Institute, Vienna, Austria, September 2001

Solitonic sectors, conformal boundary conditions and 3-d TFT
RTN Workshop “Conformal symmetry and strings”, Anttila, Sweden, September 2001

Conformal boundary conditions and three-dimensional topological field theory
NATO Workshop “Statistical field theories”, Como, Italy, June 2001

The D-branes of Gepner models
CERN, Geneva, Switzerland, June 2001

Conformal boundary conditions and three-dimensional topological field theory
Max-Planck-Institute of Mathematics, Bonn, Germany, May 2001

Two-dimensional conformal field theory - some opportunities that have not been missed
University of Cologne, Germany, April 2001

Boundary conditions in conformal field theory
Beyond the Standard Model, Meeting at Bad Honnef, Germany, March 2001

Modularization and twining characters
Technical University Munich, Germany, February 2001

Solitonic sectors, conformal boundary conditions and three-dimensional topological field theory
University Paris XI, Orsay, France, February 2001

Boundaries, D-branes and singularities
Institut Henri Poincaré, Paris, France, January 2001

2000 *Conformal boundary conditions and three-dimensional topological field theory*
University of Freiburg, Freiburg, Germany, December 2000

Boundaries, D-branes and singularities
ETH Zürich, Switzerland, December 2000

Bundles of conformal blocks and their subbundles
“Géométrie algébrique complexe”, conference at CIRM, Luminy, November 2000

Bundles of conformal blocks and their subbundles
ETH Zürich, Switzerland, November 2000

D-branes, open strings and quantum Hall fluids
University of Aachen, Aachen, Germany, October 2000

Solitonic sectors, conformal boundary conditions and three-dimensional topological field theory
TMR conference “Non-perturbative quantum effects 2000”, Paris, September 2000

Boundaries, D-branes and singularities
24th Johns Hopkins Workshop on Nonperturbative QFT methods and their applications.
Bolyai College, Budapest, Hungary, August 2000

Conformal boundary conditions and three-dimensional topological field theory
XIII International Congress on Mathematical Physics
Imperial College, London, UK, July 2000

D-brane conformal field theory and bundles of conformal blocks
3rd European Congress of Mathematics
Barcelona, Spain, July 2000

D-branes on group manifolds and flux quantization
Ninth Marcel Grossmann Meeting
Rome, Italy, July 2000

Some applications of twining characters and orbit Lie algebras
Algebra 2000, Pacific Institute for the Mathematical Sciences
Edmonton, Canada, June 2000

Strings on group manifolds and generalized minimal surfaces
University of Freiburg, Freiburg, Germany, June 2000

D-branes on group manifolds and flux quantization
IHES, Bures-sur-Yvette, France, June 2000

What is and why do we study conformal field theory?

University of Regensburg, Regensburg, Germany, May 2000

D-branes on group manifolds and flux quantization

University of Heidelberg, Heidelberg, Germany, May 2000

Conformal boundary conditions and three-dimensional topological field theory

GDR “Structures non perturbatives en théorie des champs et des cordes”

ENS Lyon, France, May 2000

D-branes on group manifolds and flux quantization

Workshop on Duality, String Theory and M-Theory

Erwin-Schrödinger-Institute, Vienna, Austria, April 2000

D-branes on group manifolds and flux quantization

UC Berkeley, Berkeley, California, USA, April 2000

D-branes on group manifolds and flux quantization

Rutgers University, New Jersey, USA, March 2000

Conformal boundary conditions and three-dimensional topological field theory

Rutgers University, Mathematics Department, New Jersey, USA, March 2000

Conformal boundary conditions and three-dimensional topological field theory

Séminaire commun Ecole Polytechnique - Ecole Normale Supérieure

Groupes quantiques, France, March 2000

Conformal boundary conditions and three-dimensional topological field theory

NIKHEF, Amsterdam, The Netherlands, March 2000

Non-simply connected Lie groups and chiral conformal field theory

Séminaire Dual, Université de Nantes, France, February 2000

1999 *Conformal boundary conditions and three-dimensional topological field theory*

Séminaire Commun École Normale Supérieure – LPTHE, Paris, December 1999

Symmetry breaking and WZW branes

Workshop on Non-Commutative Gauge Theory

Lorentz Center, Leiden, The Netherlands, November 1999

Symmetry breaking and WZW branes

Workshop on applications of integrability

Erwin-Schrödinger-Institute, Vienna, Austria, September 1999

Some remarks on conformally invariant boundary condition

Workshop on mesoscopic systems

Ascona, Switzerland, July 1999

Traces on bundles of conformal blocks and boundary conditions in CFT

Workshop on Geometry and quantization of symplectic manifolds and quantum integrable systems

Ascona, Switzerland, July 1999

D-branes and broken bulk symmetries

Workshop on D-branes, vector bundles and bound states, IHES, Bures-sur-Yvette, France, June 1999

D-branes and broken bulk symmetries

University of Torino, Torino, Italy, May 1999

D-brane CFT and traces on bundles of conformal blocks

Workshop on mathematical aspects of string theory, Mathematisches Forschungsinstitut Oberwolfach, Germany, April 1999,

D-brane conformal field theory

Ecole Polytechnique Palaiseau, France, April 1999

Boundary conditions in conformal field theory

UC Berkeley, Mathematics Department, Berkeley, California, USA, March 1999

D-brane conformal field theory

UC Berkeley, Berkeley, California, USA, March 1999

Introduction to boundary conformal field theory

3 lectures at ETH Hönggerberg, Zürich, Switzerland

1998

Boundary conditions for open strings and tadpole cancellation

Workshop on BRST quantization and anomalies, Erwin-Schrödinger-Institute, Vienna, Austria, October 1998.

Simple currents, orbifolds and T-duality

Workshop on "Conformal field theory of D-branes", DESY, Hamburg, Germany, September 1998.

Twining characters and orbit Lie algebras

Workshop on Generalized Kac-Moody algebras, Mathematisches Forschungsinstitut Oberwolfach, Germany, July 1998,

Traces on spaces of conformal blocks

Eötvös Lorand University, Budapest, Hungary, June 1998,

D-brane conformal field theory

Eötvös Lorand University, Budapest, Hungary, June 1998,

D-brane conformal field theory

Technical University of Vienna, Vienna, Austria, May 1998,

D-brane conformal field theory

CERN, Geneva, Switzerland, March 1998,

D-branes: from free fields to non-trivial backgrounds

University of Heidelberg, Heidelberg, Germany, January 1998

D-branes: from free fields to non-trivial backgrounds

University of Kaiserslautern, Kaiserslautern, Germany, January 1998

- 1997 *Twining characters and a classifying algebra for boundary conditions*
Università di Roma II (Tor Vergata), Italy, December 1997,
- Boundary conditions in conformal field theory*
ETH Hönggerberg, Zürich, Switzerland, November 1997,
- Twining characters and orbit Lie algebras*
ETH Zentrum, Zürich, Switzerland, November 1997,
- Boundary conditions in conformal field theory*
Niels-Bohr-Institute, Copenhagen, Danmark, November 1997,
- Boundary conditions in conformal field theory*
DESY, Hamburg, Germany, November 1997,
- A classifying algebra for boundary conditions*
31st International Ahrenschoop Symposium, Buckow, Germany, September 1997,
- Coset conformal field theories, gauged WZW-models and fixed points*
NIKHEF, Amsterdam, The Netherlands, June 1997,
- A systematic approach to cyclic orbifolds*
CERN, Geneva, Switzerland, June 1997,
- A complex of coinvariants for conformal blocks*
Workshop on Verlinde formulae and conformal blocks, Mathematisches Forschungsinstitut
Oberwolfach, Germany, March 1997,
- Kac-Moody algebras, WZW-models, and Verlinde formulae for (non-)simply
connected groups*
Workshop on Verlinde formulae and conformal blocks, Mathematisches Forschungsinstitut
Oberwolfach, Germany, March 1997,
- Algebraic aspects of orbifold theories*
Beyond the Standard Model, Meeting at Bad Honnef, Germany, March 1997

- 1996 *Outer automorphisms of (generalized) Kac-Moody algebras*
UC Lie Group and Lie Algebra Workshop, Santa Cruz, California, USA, December 1996,
- Coset conformal field theories and fixed point theories*
USC, Los Angeles, California, USA, November 1996,
- Twining characters and orbit Lie algebras*
UC Davis, Davis, California, USA November 1996,
- Twining characters and orbit Lie algebras*
UC Riverside, Riverside, California, USA October 1996,
- Coset theories, twining characters and orbit Lie algebras*
UC Berkeley, Berkeley, California, USA October 1996,
- Twining characters and orbit Lie algebras*
UC Santa Cruz, Santa Cruz, California, USA October 1996,
- Twining characters and orbit Lie algebras*
Séminaire sur la théorie des groupes (M. Duffo, B. Julia, M. Vergne) September 1996,
Ecole Normale Supérieure, Paris, France
- Twining characters, orbit Lie algebras and coset theories*
XXVIII Summer Institute on String Theory and Extended objects, August 1996,
Ecole Normale Supérieure, Paris, France
- Twining characters and orbit Lie algebras*
XXI International Colloquium on Group Theoretical Methods in Physics
July 1996, Goslar, Germany
- Coset conformal field theories, gauged WZW-models and fixed points*
University of Mainz, Mainz, Germany, June 1996
- Twining characters, coset conformal field theories and modular invariants*
Workshop on conformal and topological field theory and integrable models,
Erwin-Schrödinger-Institute, Vienna, Austria, March 1996
- Fixed point resolution in coset conformal field theories*
University of Kaiserslautern, Kaiserslautern, Germany, February 1996
- Twining characters and orbit Lie algebras*
Séminaire commun Ecole Polytechnique - Ecole Normale Supérieure
Groupes quantiques, Palaiseau, France, February 1996
- Twining characters and orbit Lie algebras as a novel tool in
conformal field theory*
IHES, Bures-sur-Yvette, France, January 1996
- Galois symmetry in conformal field theory*
DESY, Hamburg, Germany, January 1996

- 1995 *Field identification fixed points and twining characters*
ETH Höggerberg, Zürich, Switzerland, December 1995
- Field identification fixed points and twining characters*
CEA Saclay, Gif-sur-Yvette, France, November 1995
- Fixed point resolution in coset conformal field theories*
CERN, Geneva, September 1995
- (Quasi-)Galois symmetry and the classical limit of fusion rings*
University of Munich, Munich, Germany, July 1995
- (Quasi-)Galois symmetry of fusion rings*
Beyond the Standard Model, Meeting at Bad Honnef, Germany, March 1995
- 1994 *(Quasi-)Galois symmetry of conformal field theory*
University of Princeton, Princeton NJ, USA, December 1994
- (Quasi-)Galois symmetry of conformal field theory*
SUNY at Stony Brook, Stony Brook NY, USA, December 1994
- (Quasi-)Galois symmetry of fusion rings*
Department of Mathematics, MIT, Cambridge MA, USA, December 1994
- The configuration space of gauge theories*
Brandeis University, Waltham MA, USA, December 1994
- Galois symmetry of rational conformal field theories*
Landelijk Seminarium theoretical high energy physics, Amsterdam,
The Netherlands, November 1994
- The configuration space of gauge theories*
University of Bonn, Bonn, Germany, October 1994
- Fixed point resolution in coset conformal field theories*
XIth International Congress of Mathematical Physics, Paris, July 1994
- The configuration space of gauge theories*
Technical University of Vienna, Vienna, Austria, June 1994
- Can one obtain conformal field theories by the coset construction?*
Symposium on Mathematical Physics, Enschede, The Netherlands, June 1994
- The coset construction of conformal field theories*
Meeting of the German Physical Society, Hamburg, Germany, March 1994
- Coset conformal field theories*
Beyond the Standard Model, Meeting at Bad Honnef, Germany, March 1994
- 1993 *Classification and Poincaré polynomials for $N = 2$ coset models*
III Alushta Conference, Alushta, Ukraine, June 1993
- $N = 2$ superconformal coset models and string Compactification*
Beyond the Standard Model, Meeting at Bad Honnef, Germany, March 1993
- 1992 *$N = 2$ superconformal coset models and their classification*
NIKHEF, Amsterdam, The Netherlands, December 1992