

# CURRICULUM VITAE\*

THORSTEN HOLM

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Date and place of birth: 28 March 1965 in Offenbach/M., Germany  
Nationality: German  
Married to Dr. Bianca Spille, two children (Simon Arvid, born 26.11.2005 and Julian Henrik, born 07.04.2008)

## EDUCATION AND EMPLOYMENT

06/2009: Offer for a W2-professorship, Christian-Albrechts-Universität zu Kiel, declined  
05/2009: Awarded the title of professor (Außerplanmäßiger Professor), Leibniz Universität Hannover

SINCE 10/2007: Lecturer (permanent), Leibniz University Hannover, Institute for Algebra, Number Theory and Discrete Mathematics (on parental leave 12/08-01/09)

09/2006: Guest professor, Université Montpellier 2

03/2004-12/2007: Lecturer (permanent), University of Leeds, Department of Pure Mathematics (on leave 02/2006 - 12/2007)

10/2002-09/2007: Lecturer (Oberassistent C2, non-permanent), University Magdeburg, Institute for Algebra and Geometry (on leave 03/2004 - 02/2006)

01/2002: Habilitation in Mathematics at the University of Magdeburg. Degree awarded: Privatdozent Dr.rer.nat.habil. Habilitation Thesis: *Blocks of Tame Representation Type: Derived Equivalences and Hochschild Cohomology.*

04/1997-09/2002: Assistant position (Wissenschaftlicher Assistent C1) at the University of Magdeburg, Institute for Algebra and Geometry

04/1996-03/1997: Visiting researcher at the University of Oxford (holding a research grant from the Deutsche Forschungsgemeinschaft (DFG))

02/1996-03/1996: Research position at the University of Cambridge

05/1994-01/1996: Assistant position (Wissenschaftlicher Mitarbeiter) at the University of Magdeburg, Institute for Algebra and Geometry

04/1992-04/1994: University of Essen, Institute for Experimental Mathematics.

PhD student in the Graduiertenkolleg 'Theoretical and Experimental Methods in Pure Mathematics'

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\*Date: April 2016

Degree awarded: Dr.rer.nat. (July 1994). Doctoral dissertation: *Hochschild-Kohomologie von Blöcken mit zyklischer Defektgruppe* (supervisor: Prof. G.O. Michler)

Employment as teaching assistant at the University of Essen

10/1985-03/1992: University of Frankfurt

Studies in mathematics and computer science

Degree awarded: Diploma in Mathematics (October 1991). Diploma thesis: *Über einen Zusammenhang zwischen der geometrischen Invariante  $\Sigma^1$  und Darstellungen von Gruppen* (supervisor: Prof. R. Bieri)

1988-1992: Employment as teaching assistant at the University of Frankfurt

## CURRENT RESEARCH INTERESTS

Representation theory of finite groups and finite dimensional algebras; Algebraic combinatorics; Cluster categories and cluster tilted algebras; Homological algebra; Derived categories and derived equivalences; Invariants of algebras, especially invariants of derived module categories; Hochschild cohomology.

## LIST OF PUBLICATIONS

### BOOK

*Triangulated Categories* (eds. T. Holm, P. Jørgensen, R. Rouquier), London Mathematical Society Lecture Notes Series 375, Cambridge University Press, 2010.

### SNAPSHOT (FOR A GENERAL AUDIENCE)

*Friezes and tilings*. Appeared in *Snapshots of modern mathematics from Oberwolfach* (2015); part of the IMAGINARY open mathematics platform

### ARTICLES

- [1] T. Holm, Hochschild-Kohomologie von Blöcken mit zyklischer Defektgruppe. Vorlesungen aus dem Fachbereich Mathematik der Universität GH Essen. Heft 22 (1994).
- [2] T. Holm, *The even Hochschild cohomology ring of a block with cyclic defect group*. J. Algebra 178 (1995), 317-341.
- [3] T. Holm, *The Hochschild cohomology ring of a modular group algebra: the commutative case*. Comm. Algebra 24 (1996), 1957-1969.
- [4] T. Holm, *Hochschild cohomology of the integral group ring of a cyclic group and related algebras*. Arch. Math. 67 (1996), 360-366.
- [5] T. Holm, *Derived equivalences and Hochschild cohomology for blocks with quaternion defect groups*. In: Darstellungstheoretage Jena 1996, Sitzungsber. Math.-Naturwiss. Kl., 7, Akad. Gemein. Wiss. Erfurt, Erfurt, 1996, 75-86.
- [6] T. Holm, *Derived equivalent tame blocks*. J. Algebra 194 (1997), 178-200.
- [7] T. Holm, *Hochschild cohomology of Brauer tree algebras*. Comm. Algebra 26 (1998), 3625-3646.
- [8] T. Holm, *Derived categories, derived equivalences and representation theory*. In: M. Linckelmann (ed.), Proceedings of the summer school on representation theory of algebras, finite and reductive groups, Cluj-Napoca, Romania, September 15-25, 1997. Cluj-Napoca: "Babes Bolyai" University, Faculty of Mathematics and Computer Science, 33-66 (1998).

- [9] T. Holm, W. Willems, *Der Euklidische Algorithmus - warum nicht in der Schule?* Mathematische Unterrichtspraxis, Heft 4 (1999), 34-41.
- [10] T. Holm, *Derived equivalence classification of algebras of dihedral, semidihedral and quaternion type.* J. Algebra 211 (1999), 159-205.
- [11] K. Erdmann, T. Holm, *Twisted bimodules and Hochschild cohomology for selfinjective algebras of class  $A_n$ .* Forum Math. 11 (1999), no. 2, 177-201.
- [12] T. Holm, *Hochschild cohomology rings of algebras  $k[X]/(f)$ .* Beiträge Algebra Geom. 41 (2000), 291-301.
- [13] T. Holm, *Blocks of Tame Representation Type and Related Algebras: Derived Equivalences and Hochschild Cohomology.* Habilitationsschrift, Otto-von-Guericke-Universität Magdeburg (2001), 1-137.
- [14] K. Erdmann, T. Holm, N. Snashall, *Twisted bimodules and Hochschild cohomology for selfinjective algebras of class  $A_n$ , II.* Algebr. Represent. Theory 5 (2002), 457-482.
- [15] J. Bialkowski, T. Holm, A. Skowroński, *Derived equivalences for tame weakly symmetric algebras having only periodic modules.* J. Algebra 269 (2003), 652-668.
- [16] J. Bialkowski, T. Holm, A. Skowroński, *On nonstandard tame selfinjective algebras having only periodic modules.* Colloq. Math. 97 (2003), 33-47.
- [17] T. Holm, *Representation dimension of some tame blocks of finite groups.* Algebra Colloq. 10 (2003), 275-284.
- [18] T. Holm, *Hochschild cohomology of tame blocks.* J. Algebra 271 (2004), 798-826.
- [19] R. Bocian, T. Holm, A. Skowroński *The representation dimension of domestic weakly symmetric algebras.* Cent. Eur. J. Math. 2 (2004), 67-75.
- [20] R. Bocian, T. Holm, A. Skowroński, *Derived equivalence classification of weakly symmetric algebras of Euclidean type.* J. Pure Appl. Algebra 191 (2004), 43-74.
- [21] K. Erdmann, T. Holm, O. Iyama, J. Schröer, *Radical embeddings and representation dimension.* Adv. Math. 185 (2004), 159-177.
- [22] T. Holm, *The representation dimension of Schur algebras: the tame case.* Quart. J. Math. 55 (2004), 477-490.
- [23] T. Holm, *Cartan determinants for gentle algebras.* Arch. Math. 85 (2005), 233-239.
- [24] T. Holm, W. Hu, *On the representation dimension for rank 2 group algebras and related algebras.* J. Algebra 301, no.2 (2006), 791-802.
- [25] T. Holm, A. Skowroński, *Derived equivalence classification of symmetric algebras of domestic type.* J. Math. Soc. Japan 58, no.4 (2006), 1133-1149.
- [26] R. Bocian, T. Holm, A. Skowroński, *Derived equivalence classification of selfinjective one-parametric algebras.* J. Pure Appl. Algebra 207 no.3 (2006), 491-536.
- [27] T. Holm, W. Willems, *A local conjecture on Brauer character degrees of finite groups.* Trans. Amer. Math. Soc. 359 no.2 (2007), 591-603.
- [28] C. Bessenrodt, T. Holm,  *$q$ -Cartan matrices and combinatorial invariants of derived categories for skewed-gentle algebras.* Pacific J. Math. 229 No.1 (2007), 25-48.
- [29] R. Bocian, T. Holm, A. Skowroński, *Derived equivalence classification of nonstandard selfinjective algebras of domestic type.* Comm. Algebra 35 (2007), no.2, 515-526.
- [30] C. Bessenrodt, T. Holm, A. Zimmermann, *Generalized Reynolds ideals for non-symmetric algebras.* J. Algebra 312 (2007), no.2, 985-994.

- [31] R. Kessar, T. Holm, M. Linckelmann, *Blocks with quaternion defect group over a 2-adic ring: the case  $\tilde{A}_4$* . Glasgow Math. J. 49 (2007), 29-43.
- [32] C. Bessenrodt, T. Holm, *Weighted locally gentle quivers and Cartan matrices*. J. Pure Appl. Algebra 212 (2008), 204-221.
- [33] K. Erdmann, T. Holm, *Maximal  $n$ -orthogonal modules for selfinjective algebras*. Proc. Amer. Math. Soc. 136, no. 9 (2008), 3069-3078.
- [34] T. Holm, A. Zimmermann, *Generalized Reynolds ideals and derived equivalences for algebras of dihedral and semidihedral type*. J. Algebra 320, no. 9 (2008), 3425-3437.
- [35] T. Holm, P. Jørgensen, *On the relation between cluster and classical tilting*. J. Pure Appl. Algebra 214 (2010), 1523-1533.
- [36] T. Holm, P. Jørgensen, *Triangulated categories: definitions, properties and examples*. In: Triangulated Categories (eds. T. Holm, P. Jørgensen, R. Rouquier), London Mathematical Society Lecture Notes Series (No. 375), Cambridge University Press (2010), 1-51.
- [37] T. Holm, A. Skowroński, *Derived equivalence classification of symmetric algebras of polynomial growth*. Glasgow Math. J. 53 (2011), 277-291.
- [38] T. Holm, *Classification of torsion pairs in cluster categories of Dynkin type*. Oberwolfach Reports 8 (2011), 555-558.
- [39] T. Holm, P. Jørgensen, M. Rubey, *Ptolemy diagrams and torsion pairs in the cluster category of Dynkin type  $A_n$* . J. Algebraic Combin. 34 (2011), 507-523.
- [40] T. Holm, A. Zimmermann, *Deformed preprojective algebras of type  $L$ : Külshammer ideals and derived equivalences*. J. Algebra 346 (2011), 116-146.
- [41] T. Holm, P. Jørgensen, *On a cluster category of infinite Dynkin type, and the relation to triangulations of the infinity-gon*. Math. Z. 270 (2012), 277-295.
- [42] J. Bastian, T. Holm, S. Ladkani, *Derived equivalence classification of cluster-tilted algebras of Dynkin type  $E$* . Algebr. Represent. Theory 16 (2013), 527-551.
- [43] T. Holm, P. Jørgensen, *Realising higher cluster categories of Dynkin type as stable module categories*. Quart. J. Math. 64 (2013), 409-435.
- [44] T. Holm, P. Jørgensen, D. Yang, *Sparseness of  $t$ -structures and negative Calabi-Yau dimension in triangulated categories*. Bull. Lond. Math. Soc. 45 (2013), 120-130.
- [45] T. Holm, P. Jørgensen, M. Rubey, *Ptolemy diagrams and torsion pairs in the cluster categories of Dynkin type  $D$* . Adv. in Appl. Math. 51 (2013), 583-605.
- [46] T. Holm, P. Jørgensen,  *$SL_2$  tilings and triangulations of the strip*. J. Combin. Theory Ser. A 120 (2013), 1817-1834.
- [47] C. Bessenrodt, T. Holm, P. Jørgensen, *Generalized frieze pattern determinants and higher angulations of polygons*. J. Combin. Theory Ser. A 123 (2014), 30-42.
- [48] T. Holm, P. Jørgensen, M. Rubey, *Torsion pairs in cluster tubes*. J. Algebraic Combin. 39 (2014), 587-605.
- [49] J. Bastian, T. Holm, S. Ladkani, *Towards derived equivalence classification of the cluster-tilted algebras of Dynkin type  $D$* . J. Algebra 410 (2014), 277-332.
- [50] T. Holm, P. Jørgensen, *Cluster tilting vs. weak cluster tilting in Dynkin type  $A$  infinity*. Forum Math. 27 (2015), 1117-1137.
- [51] T. Holm, P. Jørgensen, *Generalized friezes and a modified Caldero-Chapoton map depending on a rigid object*. Nagoya Math. J. 218 (2015), 101-124.
- [52] T. Holm, P. Jørgensen, *Generalized friezes and a modified Caldero-Chapoton map depending on a rigid object, II*. Bull. Sci. Math., to appear.

- [53] C. Bessenrodt, T. Holm, P. Jørgensen, *All  $SL_2$ -tilings come from infinite triangulations*. Preprint (2016), 47 pages. arXiv:1603.09103

## GRANTS, FELLOWSHIPS AND AWARDS

2012-2015: DFG grant within the Priority Program SPP 1388 'Darstellungstheorie'; PhD position for 3 years, plus funds for travel and guests. Title of project: *Cluster categories and torsion theory*.

2009-2012: DFG grant within the Priority Program SPP 1388 'Darstellungstheorie'; PhD position for 3 years, plus funds for travel and guests. Title of project: *Cluster categories, cluster-tilted algebras and derived equivalences*.

05/2007: Travel grant awarded by the DFG

01/2007-12/2008: DAAD-PROCOPE Grant. Exchange with Université de Picardie, Amiens (France). Coordinator on the German side.

02/2006: Research in Pairs (RiP) stay awarded, Mathematisches Forschungsinstitut Oberwolfach (with K. Erdmann, 12.-25.3.2006)

07/2005: LMS Scheme 1 Conference Grant awarded (Workshop on Triangulated Categories, Leeds, 13-19 August 2006)

09/2004: LMS Scheme 4 Grant awarded (collaboration with K. Erdmann, Oxford)

04/1996-03/1997: Research grant (*Forschungsstipendium*, awarded by the Deutsche Forschungsgemeinschaft (DFG)). Project: *Hochschild cohomology and modular representation theory*

07/1996: Travel grant awarded by the DFG

06/1995: Prize of the University of Essen for outstanding doctoral dissertations

04/1992-04/1994: Doctoral grant, Deutsche Forschungsgemeinschaft (DFG)

## RESEARCH STAYS

18.-22.06.2007: Universität Bielefeld, SFB 701

15.-20.04.2007: University of Newcastle

September 2006: Université Montpellier

February 2006: Universität Hannover, Mathematisches Institut

04.-15.04.2005 and 04.-22.07.2005: Universität Hannover, Mathematisches Institut

07.-11.06.2004 and 18.-24.09.2004: University of Oxford, Mathematical Institute

01.-10.10.2002: Nicholas Copernicus University Toruń

04.-15.02.2002 and 26.06.-01.07.2002: University of Oxford, Mathematical Institute

10.-24.03.2002: Université de Lausanne (IMA)

31.08.-07.09.2000: Budapest, Technical University

01.04.1996-31.03.1997: University of Oxford, Mathematical Institute

01.02.96-31.03.1996: University of Cambridge, DPMMS

## DOCTORAL STUDENTS

Sira Gratz (Leibniz Universität Hannover, 10/2011 - 05/2015)

Thesis: *From finite to infinite: cluster algebras as colimits, and mutating torsion pairs in discrete cluster categories.*

Janine Bastian (Leibniz Universität Hannover, 10/2008 - 12/2011)

Thesis: *Derived equivalences for cluster-tilted algebras of types  $\tilde{A}_n$  and  $D_n$ .*

Graham Murphy (University of Leeds, 10/2004 - 05/2008)

Thesis: *Cluster combinatorics and derived equivalences for  $m$ -cluster tilted algebras.*

External examiner for PhD theses:

Hermund A. Torkildsen, NTNU Trondheim (Norway), December 2010

Guodong Zhou, Université de Picardie, Amiens (France), June 2007

Matthew Grime, University of Bristol (England), January 2006

Peter Collings, University of Oxford (England), November 2004

Salah Al-Nofayee, University of Bristol (England), September 2004

## ADMINISTRATION AND PROFESSIONAL SERVICE

Member of University Committee for PostDoc grants (*Wege in die Forschung*), Leibniz Universität Hannover, since 2011

Member of Faculty Board for Teaching, Leibniz Universität Hannover, since 2009

Member of Faculty Board, University of Magdeburg, 2000 - 2004

Member of several hiring committees, University of Magdeburg, 1998-2003, and Leibniz Universität Hannover, since 2007

Reviewer for grant proposals, Deutsche Forschungsgemeinschaft (DFG) and Israel Science Foundation

Referee for book manuscripts for various publishers

Reviewer for Mathematical Reviews, 1997 - 2011

Referee for mathematical journals, including *Acta Mathematica Sinica*; *Advances in Mathematics*; *Algebra and Number Theory*; *Algebras and Representation Theory*; *Archiv der Mathematik*; *Bulletin of the London Mathematical Society*; *Colloquium Mathematicum*; *Communications in Algebra*; *Designs, Codes and Cryptography*; *Inventiones mathematicae*; *Journal für die Reine und Angewandte Mathematik (Crelle)*; *Journal of Algebra*; *Journal of Algebra and Its Applications*; *Journal of Algebraic Combinatorics*; *Journal of Combinatorial Theory Series A*; *Journal of Pure and Applied Algebra*; *Journal of the Mathematical Society of Japan*; *Journal of the London Mathematical Society*; *Mathematische Nachrichten*; *Mathematische Zeitschrift*; *Proceedings of the American Mathematical Society*; *Proceedings of the Edinburgh Mathematical Society*; *Proceedings of the London Mathematical Society*; *Quarterly Journal of Mathematics*; *Transactions of the American Mathematical Society*

## ORGANIZATION OF CONFERENCES

CIRM-meeting *Hochschild cohomology, structure and applications*, Luminy, 7-11 June 2010  
(joint with L. Avramov, C. Cibils, M.J. Redondo)

*Norddeutsches Gruppentheoriekolloquium*, Magdeburg, 9 - 10 November 2007 (joint with W. Willems)

*Workshop on Triangulated Categories*, Leeds, 13 - 19 August 2006 (joint with P. Jørgensen, R. Rouquier) - A Satellite of the ICM 2006

ARTIN meeting (Algebra and representation theory in the north), Leeds, 10.-11.12.2004  
(joint with J. Schröer)

*Darstellungstheorie-Tage 2001*, Magdeburg, 2. - 3.11.2001 (joint with C. Bessenrodt)

## TEACHING EXPERIENCE

### (1) LECTURE COURSES (Leibniz University Hannover)

Elementary algebra (for teacher's students, summer 2016)

Linear Algebra B (for computer scientists, summer 2016)

Introduction to mathematics (for teacher's students, winter 2015/16)

Linear Algebra A (for computer scientists, winter 2015/16)

Lie algebras (summer 2015)

Homological algebra (winter 2014/15)

Groups and symmetry (summer 2014)

Algebras and representations (summer 2014)

Representation theory (winter 2013/14)

Algebra II (summer 2013)

Algebra I (winter 2012/13)

Linear Algebra II (summer 2012)

Linear Algebra I (winter 2011/12)

Algebra II (summer 2011)

Algebras and their representations (summer 2011)

Representation Theory (winter 2010/11)

Cluster Algebras (summer 2010)

Mathematics II for Civil Engineers (summer 2008)

Mathematics I for Civil Engineers (winter 2007/08)

### (2) LECTURE COURSES (University of Leeds)

MATH0111/0131 Elementary Differential Calculus (semester 1, 2005/06)

MATH3071 Groups and Symmetry (semester 1, 2005/06)

MATH2032 Rings, Polynomials and Fields (semester 2, 2004/05)

MATH3071 Groups and Symmetry (semester 1, 2004/05)

MATH2032 Rings, Polynomials and Fields (semester 2, 2003/04)

## (3) LECTURE COURSES (Otto-von-Guericke-University Magdeburg)

Representation Theory (summer 2007)  
 Lie Algebras (winter 2006/07)  
 Geometry for Computer Graphics (summer 2006)  
 Mathematical Foundations of Computer Science (summer 2006)  
 Coding Theory (winter 2003/04)  
 Mathematical Foundations of Computer Science (summer 2003)  
 Introduction to Algebra and Number Theory (winter 2002/03)  
 Cryptography and Elliptic Curves (summer 2002)  
 Cryptography (winter 2001/02)  
 Computer Algebra (winter 1999/2000)  
 Algebraic Number Theory (winter 1998/99)  
 Number Theory (summer 1998)  
 Algebra II (summer 1997)

## (4) SEMINARS (Leibniz University Hannover)

Lie Algebras (winter 2010/11)  
 Catalan-Coxeter combinatorics and cluster complexes (winter 2009/10)  
 Cluster algebras and mutation of quivers (winter 2008/09)  
 Lie Algebras (winter 2008/09)  
 Reflection Groups (with M. Soriano, summer 2008)

## (5) SEMINARS (Otto-von-Guericke-University Magdeburg)

Lie Algebras, Root Systems and Applications (summer 2007)  
 Applied Algebra (summer 2003)  
 Lie Algebras (with C. Bessenrodt, summer 2000)  
 Introduction to MAPLE (winter 1999/2000)

## (6) PROBLEMS CLASSES GIVEN AS TEACHING ASSISTANT

University of Magdeburg (1994-1996 and 1997-2001):

Mathematics II for Economics  
 Mathematics I & II for Computer Scientists  
 Mathematics I for Engineers  
 Algebra I & II  
 Reflection Groups  
 Finite Fields I & II  
 Mathematics for Computer Algebra

University of Essen (1992-1994):

Linear Algebra for Computer Scientists  
 Linear Algebra I

University of Frankfurt (1988-1991):



Linear Algebra I & II  
 Algebra I & II  
 Discrete Mathematics  
 Homological Algebra

(7) OTHER

First-year tutorials, University of Leeds (groups of six students)  
 Working seminars for PhD students, University of Leeds

## LIST OF TALKS

*Torsion pairs in cluster tubes: classification and enumeration.* Workshop on Geometry, representation theory and clusters, Leicester, 22.06.2012

*Torsion pairs in cluster tubes.* Conference Cluster categories and cluster tilting (in honour of Idun Reiten's 70th birthday), Trondheim, 30.03.2012

*Higher cluster tilting in Dynkin type  $A$  infinity.* Workshop Cluster Algebras and Combinatorics, Graz, 09.03.2012 (cancelled due to illness)

*Classification of torsion pairs in cluster categories of Dynkin type.* Mathematisches Forschungsinstitut Oberwolfach, 24.02.2011

*Külshammer ideals and derived equivalence classifications.* Miniconference on Self-injective Algebras, Torun, 13.12.2010

*A cluster category of type  $A$ -infinity.* Workshop on Derived Categories in Algebra, Topology and Geometry, Leicester, 17.09.09

*Bilinearformen und derivierte Invarianten von Algebren.* Universität Kiel, Mathematisches Seminar, 30.01.09

*Cluster tilted algebras and derived equivalences.* Universität Bonn, Representation Theory Seminar, 19.01.09

*Cluster-Kombinatorik und Darstellungstheorie.* Universität Magdeburg, 15.07.08

*Calabi-Yau Dimensionen von stabilen Modulkategorien.* Universität Kiel, Mathematisches Seminar, 11.01.08

*Calabi-Yau dimensions of stable module categories.* CIRM-Conference 'Calabi-Yau algebras and N-Koszul algebras', Marseille-Luminy, 25.10.07

*Calabi-Yau dimensions of stable module categories.* Workshop 'Geometric aspects in ring and representation theory', Lens, 28.09.07

*Bilinear forms, Hochschild (co-)homology and invariants of derived module categories.* Workshop 'Hochschild Cohomology of Algebras: Structure and Applications', Banff International Research Station (BIRS), 04.09.07

*Cluster categories and selfinjective algebras.* ICRA XII, International Conference on Representations of Algebras, Torun, 20.08.07

*Cluster categories and selfinjective algebras.* Universität Bielefeld, Seminar Representation Theory of Algebra, 22.06.07

*Cluster-Kategorien und selbstinjektive Algebren.* Universität Osnabrück, 25.01.2007

*Cluster categories and selfinjective algebras.* Workshop on Representation Theory, Universität Hannover, 16.12.2006

*Bilinear forms, Hochschild homology and invariants of derived module categories.* CIRM Luminy, Conference 'Homologie et déformations en algèbre, géométrie et représentations', 28.9.2006

*Maximal orthogonal modules for selfinjective algebras and cluster complexes.* Université Montpellier 2, Séminaire AGATA, 14.9.2006

*Maximal orthogonal modules, cluster complexes and Catalan numbers.* Universität Hannover, Algebra and Algebraic Combinatorics Seminar, 19.7.2006

*Maximal  $n$ -orthogonal modules for selfinjective algebras.* Universität Köln, Algebra Research Seminar, 18.7.2006

*Maximal  $n$ -orthogonal modules for selfinjective algebras.* Universität Bielefeld, Representation Theory Seminar, 16.6.2006

*Cartan matrices and graded derived invariants for gentle quivers.* 7th NWDR Workshop on Representation Theory, Hannover, 17.2.2006

*Generalized Reynolds ideals and derived equivalence classifications.* Universität Hannover, Algebra and Algebraic Combinatorics Seminar, 6.2.2006

*Weighted locally gentle quivers and Cartan matrices.* Conference on Representation Theory and Related Topics, International Center for Theoretical Physics (ICTP), Trieste, Italy, 23.1.-28.1.2006

*Counting paths in graphs with relations and invariants of algebras.* Otto-von-Guericke-Universität Magdeburg, Seminar on Discrete Mathematics and Geometry, 27.6.2005

*On the representation dimension of rank 2 group algebras and related algebras.* Joint International Meeting AMS-DMV-ÖMG, Mainz, 16.-19.6.2005 (Special Session Representations and Cohomology of Groups and Algebras)

*Representation dimension of algebras.* Workshop Algebras and Representation Theory, Warwick, 29.5.2005

*Cartan determinants of gentle algebras.* Universität Paderborn, Representation Theory Seminar, 14.4.2005

*Algebras, representations and explicit invariants.* University of Glasgow, Algebra Seminar, 9.3.2005

*Algebras, representations and explicit invariants.* University of Manchester, Algebra Seminar, 22.2.2005

*On Cartan determinants for gentle algebras.* Bielefeld, Representation Theory Seminar, 7.1.2005

*On Cartan determinants for gentle algebras.* Universität Hannover, Algebra and Algebraic Combinatorics Seminar, 15.12.2004

*Algebras, Representations and Homology.* University of Kent, Canterbury, Mathematics Seminar, 29.11.2004

*Homological Algebra in Representation Theory, or: how complicated is an algebra?.* Bristol, Pure Mathematics Seminar, 19.10.2004

*Derived equivalences for selfinjective tame algebras.* Paderborn, Representation Theory Seminar, 22.7.2004

*Representation dimension of tame Schur algebras.* Workshop Representation theory of finite groups and finite dimensional algebras, Hannover, 16.7.2004

*Conjectures on Brauer character degrees of finite groups.* Oxford, Representation Theory Seminar, 10.6.2004

*Representation dimension of group algebras and related algebras.* Second Sino-German Workshop on Representation theory and the theory of finite groups, Goslar, 10.2.2004

*Algebras, Representations and Homological Algebra.* University of Leeds, 18.9.2003

*Derived equivalences for weakly symmetric algebras of Euclidean and tubular types.* Conference Frobenius Algebras and Related Topics, Toruń, 15.9.2003

*Algebras, representations and homological algebra.* Algebra Seminar, Universität Hannover, 17.7.2003

*Derived invariants of algebras.* Workshop Algebraic Groups, Hecke Algebras and Abstract Representation Theory, Bielefeld, 27.06.2003

*Algebras, representations and homological algebra.* Colloquium, Philipps-Universität Marburg, 25.4.2003

*Hochschild cohomology of tame blocks of group algebras.* Workshop on Hochschild cohomology and applications, Leicester, 2.4.2003

*The representation dimension and how to determine it.* University of Leicester, Pure Maths Seminar, 28.3.2003

*Derived equivalences and invariants of algebras.* University of Birmingham, Algebra Colloquium, 27.3.2003

*Representation dimension and the finitistic dimension conjecture for special biserial algebras.* Symposium 'Twenty Years of Tilting Theory', Chiemsee, 18.11.2002

*Auslander's representation dimension.* Darstellungstheorie-Tage 2002, Kassel, 9.11.2002

*Derived equivalence of algebras.* Nicholas Copernicus University Toruń, Algebra Seminar, 8.10.2002

*Auslander's representation dimension and radical embeddings.* Nicholas Copernicus University Toruń, Representation Theory Seminar, 3.10.2002

*Representation dimension of algebras.* Beijing Normal University, Representation Theory Seminar, 20.9.2002

*Blocks of groups with dihedral, semidihedral or quaternion Sylow 2-subgroups.* Workshop 'Representation Theory and Finite Simple Groups', Beijing, 19.9.2002

*Auslander's representation dimension.* London Math. Soc. Research Symposium 'Representations of finite groups and related algebras', University of Durham, 4.7.2002

*Group algebras of tame representation type.* Representation Theory Seminar, Bielefeld, 24.5.2002

*Blocks of group algebras: an introduction to tame representation type.* Université de Lausanne (IMA), 13.3. und 20.3.2002

*Tame Blocks and Related Algebras.* Representation Theory Seminar, University of Oxford, 14.2.2002

*Hochschild cohomology of tame blocks.* Oberwolfach Conference 'Darstellungstheorie endlicher Gruppen', 29.3.2001

*Hochschild cohomology of group algebras and blocks.* Seminar, Renyi Institute, Budapest, 4.9.2000

*Twisted bimodules and Hochschild cohomology.* International Conference on the Representation Theory of Algebras ICRTA 9.5, Bielefeld, 4.9.1998

*Algebras of dihedral, semidihedral and quaternion type - Derived equivalences and tameness.* Third Chemnitz-Prague-Torun Algebra Symposium, Torun, 30.5.1997

*Algebras of dihedral, semidihedral and quaternion type - Derived equivalences and tameness.* Bielefeld-Chemnitz-Seminar, University of Bielefeld, 18.4.1997

*Derived Equivalences and Hochschild Cohomology.* Leicester University, Pure Maths Seminar, 27.11.1996

*Homological Properties of Tame Blocks.* Conference 'Representation Theory of Finite Groups', Bad Honnef, 30.8.1996

*Homological Properties of Tame Blocks.* AMS Summer Research Institute 'Cohomology, Representations and Actions of Finite Groups', Seattle, 15.7.1996

*Homological Properties of Blocks of Group Algebras.* Oxford, Algebra Seminar, 4.6.1996

*Deriviert äquivalente zahme Blöcke.* Darstellungstheoretage 1996, Jena, 17.5.1996

*Cohomological Properties of Blocks of Finite Groups.* University of Cambridge, Algebra Seminar, 6.3.1996

*Nilpotente Blöcke und ihre Hochschild-Kohomologieringe.* DMV annual meeting, Ulm, September 1995

*Hochschild Cohomology in Modular Representation Theory.* Bielefeld-Chemnitz-Seminar, Bielefeld, 20.12.1994

*Hochschild Cohomology of Blocks with Cyclic Defect Groups.* Workshop 'Derived Equivalences', Pappenheim, September 1994

*Hochschild-Kohomologie von Blöcken mit zyklischer Defektgruppe.* Annual Meeting Deutsche Mathematiker Vereinigung (DMV), Duisburg, September 1994

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