

Curriculum Vitae

Personal Details

Name	Benjamin Sambale
Address	Institut für Algebra, Zahlentheorie und Diskrete Mathematik, Fakultät für Mathematik und Physik Leibniz Universität Hannover Welfengarten 1 30167 Hannover, Germany
Birthday	April 10, 1985
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Education

Jun 23, 2004	General qualification for university entrance (“Abitur”) at the Marie-Curie-Gymnasium Blankenhain
Nov 19, 2008	Diploma with distinction in Mathematics at the Friedrich-Schiller-Universität Jena Thesis: <i>Konjugationsklassen und Charaktere in endlichen p-Gruppen</i>
Nov 26, 2010	Ph.D. with “summa cum laude” Dissertation: <i>2-Blöcke mit metazyklischen und minimal nichtabelschen Defektgruppen</i> Advisor: Prof. Dr. Burkhard Külshammer
Nov 27, 2013	Habilitation Thesis: <i>Blocks of finite groups and their invariants</i>

Employment

Dec '08 – Dec '11	Assistant at the University of Jena, partly supported by the DFG (German Research Foundation)
Jan – Jun '12	Postdoc at the University of California, Santa Cruz, supported by the DAAD (German Academic Exchange Service)

Jul '12 – Jun '15 **Postdoc** at the University of Jena,
supported by the DFG and the Carl Zeiss Foundation,
since Dec 2013: **Privatdozent**

Jul – Sep '15 **Heisenberg scholar** at the University of Jena, supported by the DFG

Oct '15 – Sep '18 **Heisenberg scholar** at the University of Kaiserslautern

Apr '18 – Jul '19 **Temporary associate professor** at the University of Jena

Oct '19 – Sep '21 **Temporary associate professor** at the Leibniz University of Hannover

Oct '21 – Now **Heisenberg scholar and lecturer** at the University of Hannover

Research stays

Mar – Apr '14 University of California, Santa Cruz, USA
supported by the Daimler and Benz Foundation

Sep '15 University of Valencia, Spain
supported by the Daimler and Benz Foundation

Jan '16 University of Auckland, New Zealand
supported by the Daimler and Benz Foundation

Jul '16 Academic Guest at Bernoulli Center (CIB),
EPFL Lausanne, Switzerland (invited)

Jan – Mar '18 Research member at the MSRI Berkley, USA (invited)

Feb '22 University of Valencia, Spain
supported by the German Research Foundation

May '22 Research member at the INI Cambridge, UK (invited)

Feb '23 University of Valencia, Spain
supported by the German Research Foundation

Teaching Experience

Apr – Jul '06 Corrector of homework in Linear Algebra

Oct '07 – Oct '08 Tutor of preparatory courses in mathematics

Oct '08 – Dec '11 Example classes in Linear Algebra, Group Theory, Algebra 1 & 2,
Ring Theory and Representation Theory

Oct '13 – Mar '14 Lectures on **Character Theory**

Apr – Sep '15 Lectures on **Permutation Groups**

Sep '16 Lectures “Determination of block invariants”, CIB Lausanne

Oct '16 – Mar '17 Lectures on **Group Theory** (held in English)

Apr – Sep '17 Organizer of the Oberseminar

Oct '17 – Mar '18 Lectures on **Introduction to Algebra**

Apr – Sep '18 Lectures on **Algebra and Number Theory for Teachers**,
Character Theory and Seminar on Permutation Groups

- Oct '18 – Mar '19 Lectures on **Algebra 1** and **Combinatorics**,
Proseminar on Geometric Group Theory
- Apr – Sep '19 Lectures on **Algebra 2** and **Algebra and Number Theory
for Teachers**, Seminar on Set Theory
- Oct '19 – Mar '20 Lectures on **Linear Algebra 1 for Computer Scientists**
and **Algebraic Combinatorics**, Seminar on Permutation Groups
- Apr – Sep '20 Lectures on **Linear Algebra 2 for Computer Scientists**
and **Discrete Mathematics**, Seminar on Lie Algebras
- Oct '20 – Mar '21 Lectures on **Linear Algebra 1 for Computer Scientists**
and **Group Theory**, Seminar on Fusion systems
- Apr – Sep '21 Lectures on **Linear Algebra 2 for Computer Scientists**
and **Discrete Mathematics**, Seminar on Coding theory
- Oct '21 – Mar '22 Seminar on The symmetries of things
- Apr '22 – Sep '22 Lectures on **Combinatorial Group Theory**
- Oct '22 – Apr '23 Seminar on Formal Power Series
- Apr '23 – Jul '23 Lectures on **Representation Theory**

Supervision

- Sep 2012 (jointly with Külshammer) Diploma thesis *Blöcke mit der 2-Sylowgruppe von $PSU(3,4)$ als Defektgruppe* by Julian Bertels, Jena
- May 2016 (jointly with Külshammer) Dissertation *2-Blöcke mit Defektgruppen mit genau drei Involutionen* by René Reichenbach, Jena
- Apr 2017 Bachelor's thesis *Invariants of character tables of finite groups* by Jonathan Gruber, Kaiserslautern
- Sep 2017 Master's thesis *On the classification of p -blocks of finite groups* by Christoph Lampe, Kaiserslautern
- Oct '17 – Jul '18 Ph.D. studies of Melvin Dauter (discontinued), Kaiserslautern
- Jan 2018 (jointly with Külshammer) Dissertation *Eine Klasse von Blöcken mit einer elementarabelschen Defektgruppe der Ordnung 16* by Pierre Landrock, Jena
- Apr 2019 (jointly with Külshammer) Bachelor's thesis *Reed-Muller-Codes und Verallgemeinerungen* by Karl Konstantin Westphal, Jena
- Sep 2019 Bachelor's thesis *Gruppentheoretische Beweise von Menons Identität*, by Robin Giefler, Jena
- Sep 2019 Bachelor's thesis *Das Theorem von Kulakoff-Hall*, by Lucas Büchner Mayench, Jena
- Sep 2020 Bachelor's thesis *Der Satz von Poincaré-Birkhoff-Witt*, by Sophie Friesen, Hannover
- Mar 2021 Bachelor's thesis *Gruppenelemente maximaler Ordnung*, by Philipp Wellmann, Hannover

- Mar 2021 Master's thesis for teachers *Mathieu-Puzzle und Verallgemeinerungen*,
by Nadja van Kempen, Hannover
- Jun 2021 Bachelor's thesis *Permutationsgruppen mit regulären Bahnen*,
by Julia Krivorutski, Hannover
- Nov 2021 Bachelor's thesis *Algorithmen zur Planarität von Graphen*,
by Karl Böhlke, Hannover
- Apr 2022 Bachelor's thesis *MacMahons Mastertheorem und Anwendungen*,
by Tessa Rollauer, Hannover
- Oct 2022 Master's thesis *Umkehrungen von Gaschütz' Satz*,
by Scheima Sara Obeidi
- Oct 2022 Master's thesis *Strong Pseudo Frobenius Numbers*,
by Luca Benedikt Blaas
- Dec 2022 Bachelor's thesis *Faktorielle Ringe von Potenzreihen*,
by Till Müller
- Jan 2023 Master's thesis (Physics) *A Quantum Algorithm for Job Shop Problems with
Group Theory*, by Gereon Koßmann
- Oct '19 – Sep '21 Mentor of Postdoc Ruwen Hollenbach, Hannover
- Mar '22 – May '22 Mentor of Doctoral student Diego García Lucas, Hannover

Selected Talks

- Oct 01, 2009 *Konjugationsklassen und Charaktere in endlichen p -Gruppen*,
Students' Conference of the DMV, Bochum, Germany
- Nov 06, 2009 *Offene Probleme der Gruppentheorie*,
Day of the faculty 2009, Jena, Germany
- Nov 14, 2009 *Blocks with metacyclic defect groups*,
Representation Theory Days, Jena, Germany
- Dec 11, 2010 *Cartan matrices and Brauer's $k(B)$ -Conjecture*,
Nikolaus Conference, Aachen, Germany
- May 02, 2011 *Block theory and fusion systems*,
Algebra Seminar, Copenhagen, Denmark
- Nov 11, 2011 *New inequalities concerning Olsson's Conjecture*,
Representation Theory Days, Hannover, Germany
- Dec 09, 2011 *Donovan's Conjecture for certain defect groups*,
Nikolaus Conference, Aachen, Germany
- Mar 29, 2012 *Survey on invariants of blocks of finite groups*,
Representations of Finite Groups, MFO Oberwolfach, Germany
- Apr 24, 2012 *Calculating invariants of blocks of finite groups*,
Algebra and Number Theory Seminar, Santa Cruz, USA
- Sep 18, 2012 *Further evidence for conjectures in block theory*,
DMV annual meeting, Saarbrücken, Germany

- Nov 15, 2012 *Around Brauer's $k(B)$ -Conjecture*,
Chevalley Seminar, Paris, France
- Jan 15, 2013 *Fusionssysteme in Gruppen- und Darstellungstheorie*,
Algebra Seminar, Halle, Germany
- Mar 26, 2013 *On Loewy lengths of blocks*, Annual conference of the DFG priority
program in representation theory 2013, Bad Boll, Germany
- Jul 16, 2013 *Finite groups with two conjugacy classes of p -elements*,
Algebra Seminar, Kaiserslautern, Germany
- Sep 05, 2013 *On the Brauer-Feit bound for abelian defect groups*,
Brauer's problems - 50 years on, Manchester, UK
- Mar 18, 2014 *The Alperin-McKay Conjecture for a special class of defect groups*,
Global/Local Conjectures in Representation Theory of Finite Groups,
BIRS Banff, Canada
- Apr 09, 2014 *Rank and Exponent of finite p -groups and applications*,
Algebra and Number Theory Seminar, Santa Cruz, USA
- Jun 10, 2014 *Loewy lengths of blocks revisited*,
Young Algebraists' Conference, Lausanne, Switzerland
- Feb 12, 2015 *Blocks with transitive fusion systems*,
Representations of Finite and Algebraic Groups, Les Houches, France
- Jul 23, 2015 *Cartan matrices and Brauer's $k(B)$ -Conjecture*,
Blocks of Finite Groups and Beyond, Jena, Germany
- Sep 17, 2015 *Broué's Conjecture for the sporadic groups*,
Algebra Seminar, Valencia, Spain
- Oct 29, 2015 *Blocktheorie endlicher Gruppen*, HHU Düsseldorf, Germany
- Jan 22, 2016 *Computation of isotypies in finite simple groups*,
Mathematics Seminar, Auckland, New Zealand
- Feb 03, 2016 *Orthogonality relations for character and blocks*,
Mathematics & Statistics Colloquium, Maynooth, Ireland
- Feb 24, 2016 *Broué's Conjecture for some finite simple groups*,
Algebra and Geometry Seminar, Bristol, UK
- Dec 15, 2016 *On defects of characters and decomposition numbers*, Finite Simple Groups,
their Fusion Systems and Representations, CIB Lausanne, Switzerland
- Feb 09, 2017 *The number of characters in a block of a finite group*,
Mathematics Colloquium, Santa Cruz, USA
- Oct 04, 2017 *On the blockwise modular isomorphism problem*,
Algebra Seminar, Brussels, Belgium
- Oct 19, 2017 *On the blockwise modular isomorphism problem*, Perspectives
in Representation Theory of Finite Groups, BIRS Banff, Canada
- Nov 10, 2017 *Brauer's Conjecture for π -blocks of π -separable groups*,
Representation Theory Days, Eichstätt, Germany

- Feb 16, 2018 *On the projective height zero conjecture,*
Algebra and Number Theory Seminar, Santa Cruz, USA
- Feb 21, 2018 *Fusion systems of groups and blocks,*
Young Researchers Seminar, MSRI Berkeley, USA
- Mar 29, 2018 *Lokal-global-Sätze in der Darstellungstheorie endlicher Gruppen,*
TU Braunschweig, Germany
- Apr 09, 2018 *Characters and Sylow 2-subgroups of maximal class,*
Representations of Finite and Algebraic Groups, MSRI Berkeley, USA
- Sep 05, 2018 *Regular orbits of coprime linear groups in large characteristic,*
Group Theory in Florence II, Florence, Italy
- Sep 13, 2018 *Bounding the number of characters in a block,*
Representation Theory Days, Hannover, Germany
- Mar 28, 2019 *Character counting conjectures for π -separable groups,*
Representations of Finite Groups, MFO Oberwolfach, Germany
- Aug 22, 2019 *Representations of finite groups,* TU Bergakademie Freiberg, Germany
- Jun 25, 2020 *Lokal-global-Sätze in der Darstellungstheorie endlicher Gruppen,*
RWTH Aachen, Germany
- Jan 20, 2021 *Representations of group algebras and blocks,* CAU Kiel, Germany
- May 20, 2021 *Generalized bases of finite groups,* Algebra Seminar, Amiens, France
- Jul 19, 2021 *Representations of groups and blocks,* BU Wuppertal, Germany
- Dec 09, 2021 *Lower bounds on the number of Brauer characters,*
Representation Theory Days, Aachen, Germany
- Feb 04, 2022 *Character counting conjectures for π -separable groups,*
14th Iranian Group Theory Conference, Tehran, Iran
- Feb 10, 2022 *Detecting blocks from the character table,*
Group Theory Seminar, ICMAT Madrid, Spain
- Feb 15, 2022 *On the size of coset unions,*
Algebra Seminar, Valencia, Spain
- Feb 21, 2022 *Detecting blocks from the character table,*
Seminar on Representations of Groups, Murcia, Spain
- Mar 31, 2022 *Counting characters by local Cartan invariants,*
Algebra Colloquium, London, UK
- May 12, 2022 *Another conjectural characterization of nilpotent blocks,* Counting
conjectures and beyond, Isaac Newton Institute, Cambridge, UK
- Jul 21, 2022 *Representations of groups and blocks,* TU Munich, Germany
- Oct 29, 2022 *Sylow structure from the character table,* Representation Theory Days,
Kaiserslautern, Germany

Coauthors

C. G. Ardito, A. Bächle, D. Benson, P. Bhowal, P. J. Cameron, C. W. Eaton, E. Giannelli, L. Héthelyi, N. N. Hung, I. M. Isaacs, R. Kessar, S. Koshitani, B. Külshammer, P. Landrock, C. Lassueur, G. Malle, A. Moretó, J. Murray, R. K. Nath, G. Navarro, Y. Otokita, N. Rizo, D. Rossi, A. A. Schaeffer Fry, M. Tărnăuceanu, P. H. Tiep, P. Wellmann

Books

- *2-Blöcke mit metazyklischen und minimal nichtabelschen Defektgruppen*, Südwestdeutscher Verlag für Hochschulschriften, Saarbrücken, 2011 (PhD thesis)
- *Blocks of finite groups and their invariants*, Springer Lecture Notes in Math. Vol. 2127, Springer-Verlag, Cham, 2014 (Habilitation thesis)
- *Endliche Permutationsgruppen*, Springer Spektrum, Wiesbaden, 2017 (textbook)

Peer reviewed articles

1. (with L. Héthelyi and B. Külshammer), *Conjugacy classes and characters of finite p -groups*, Comm. Algebra **39** (2011), 657–685
2. *Cartan matrices and Brauer's $k(B)$ -conjecture*, J. Algebra **331** (2011), 416–427
3. *Cartan matrices and Brauer's $k(B)$ -conjecture II*, J. Algebra **337** (2011), 345–362
4. *2-Blocks with minimal nonabelian defect groups*, J. Algebra **337** (2011), 261–284
5. *Fusion systems on metacyclic 2-groups*, Osaka J. Math. **49** (2012), 325–329
6. *Blocks with defect group $D_{2^n} \times C_{2^m}$* , J. Pure Appl. Algebra **216** (2012), 119–125
7. (with C. W. Eaton and B. Külshammer), *2-Blocks with minimal nonabelian defect groups II*, J. Group Theory **15** (2012), 311–321
8. (with B. Külshammer), *The 2-blocks of defect 4*, Represent. Theory **17** (2013), 226–236
9. *Brauer's Height Zero Conjecture for metacyclic defect groups*, Pacific J. Math. **262** (2013), 481–507
10. *Blocks with central product defect group $D_{2^n} * C_{2^m}$* , Proc. Amer. Math. Soc. **141** (2013), 4057–4069
11. *Blocks with defect group $Q_{2^n} \times C_{2^m}$ and $SD_{2^n} \times C_{2^m}$* , Algebr. Represent. Theory **16** (2013), 1717–1732
12. *Further evidence for conjectures in block theory*, Algebra Number Theory **7** (2013), 2241–2273
13. (with L. Héthelyi and B. Külshammer), *A note on Olsson's Conjecture*, J. Algebra **398** (2014), 364–385
14. (with C. W. Eaton, R. Kessar and B. Külshammer), *2-blocks with abelian defect groups*, Adv. Math. **254** (2014), 706–735
15. *On the Brauer-Feit bound for abelian defect groups*, Math. Z. **276** (2014), 785–797

16. (with B. Külshammer, G. Navarro and P. H. Tiep), *Finite groups with two conjugacy classes of p -elements and related questions for p -blocks*, Bull. London Math. Soc. **46** (2014), 305–314
17. (with S. Koshitani and B. Külshammer), *On Loewy lengths of blocks*, Math. Proc. Cambridge Philos. Soc. **156** (2014), 555–570
18. *Exponent and p -rank of finite p -groups and applications*, Arch. Math. (Basel) **103** (2014), 11–20
19. (with L. Héthelyi, R. Kessar and B. Külshammer), *Blocks with transitive fusion systems*, J. Algebra **424** (2015), 190–207
20. *Cartan matrices and Brauer’s $k(B)$ -Conjecture III*, Manuscripta Math. **146** (2015), 505–518
21. *The Alperin-McKay Conjecture for metacyclic, minimal non-abelian defect groups*, Proc. Amer. Math. Soc. **143** (2015), 4291–4304
22. *Broué’s isotopy conjecture for the sporadic groups and their covers and automorphism groups*, Internat. J. Algebra Comput. **25** (2015), 951–976
23. *2-Blocks with minimal nonabelian defect groups III*, Pacific J. Math. **280** (2016), 475–487
24. *Fusion systems on bicyclic 2-groups*, Proc. Edinb. Math. Soc. **59** (2016), 989–1018
25. (with P. Landrock), *On centers of blocks with one simple module*, J. Algebra **472** (2017), 339–368
26. *On blocks with abelian defect groups of small rank*, Results Math. **71** (2017), 411–422
27. (with G. Navarro), *A counterexample to Feit’s Problem VIII on decomposition numbers*, J. Algebra **477** (2017), 494–495
28. *Cartan matrices and Brauer’s $k(B)$ -Conjecture IV*, J. Math. Soc. Japan **69** (2017), 735–754
29. *Isotypies for the quasisimple groups with exceptional Schur multiplier*, J. Algebra Appl. **16** (2017), 1750078
30. *On a theorem of Blichfeldt*, Expo. Math. **35** (2017), 221–225
31. (with G. Malle and G. Navarro), *On defects of characters and decomposition numbers*, Algebra Number Theory **11** (2017), 1357–1384
32. *A counterexample to a conjecture of Wada*, J. Algebra **489** (2017), 582–585
33. *Refinements of the orthogonality relations for blocks*, Algebr. Represent. Theory **20** (2017), 1109–1131
34. *Regular orbits of coprime linear groups in large characteristic*, Bull. Aust. Math. Soc. **96** (2017), 438–444
35. (with A. Bächle), *Groups whose elements are not conjugate to their powers*, Arch. Math. **110** (2018), 447–454
36. (with G. Navarro and P. H. Tiep), *Characters and Sylow 2-subgroups of maximal class revisited*, J. Pure Appl. Algebra **222** (2018), 3721–3732
37. *Solution of Brauer’s $k(B)$ -Conjecture for π -blocks of π -separable groups*, Forum Math. **30** (2018), 1061–1064

38. (with G. Navarro), *On the blockwise modular isomorphism problem*, Manuscripta Math. **157** (2018), 263–278
39. (with B. Külshammer), *Loewy lengths of centers of blocks*, Q. J. Math. **69** (2018), 855–870
40. *Remarks on Harada’s Conjecture*, Israel J. Math. **228** (2018), 513–526
41. *Morita equivalent blocks of symmetric groups*, SIGMA **14** (2018), 100, 8 pages
42. *On the projective height zero conjecture*, Proc. Amer. Math. Soc. **147** (2019), 487–488
43. *Pseudo Sylow numbers*, Amer. Math. Monthly **126** (2019), 60–65
44. (with B. Külshammer and Y. Otokita), *Loewy lengths of centers of blocks II*, Nagoya Math. J. **234** (2019), 127–138
45. *Pseudo Frobenius numbers*, Expo. Math. **37** (2019), 200–206
46. *Bounding the number of characters in a block of a finite group*, Adv. Math. **358** (2019), 106861, 20 pp.
47. *Landau’s Theorem for π -blocks of π -separable groups*, Adv. Group Theory Appl. **8** (2019), 103–115
48. (with I. M. Isaacs and G. Navarro), *Irreducible extensions of characters*, Israel J. Math. **234** (2019), 629–644
49. (with A. Bächle), *Orders generated by character values*, Monatsh. Math. **191** (2020), 665–678
50. (with E. Giannelli), *On restriction of characters to defect groups*, J. Algebra **558** (2020), 423–433
51. *Character tables and defect groups*, J. Algebra **562** (2020), 323–340
52. (with E. Giannelli, N. Rizo and A. A. Schaeffer Fry) *Groups with few p' -character degrees in the principal block*, Proc. Amer. Math. Soc. **148** (2020), 4597–4614
53. *On a theorem of Ledermann and Neumann*, Amer. Math. Monthly **127** (2020), 827–834
54. *Survey on perfect isometries*, Rocky Mountain J. Math. **50** (2020), 1517–1539
55. (with G. Navarro), *Weights and nilpotent subgroups*, Int. Math. Res. Not. **2021** (2021), 2526–2538
56. *Blocks with small-dimensional basic algebra*, Bull. Aust. Math. Soc. **103** (2021), 461–474
57. *Generalized bases of finite groups*, Arch. Math. **117** (2021), 9–18
58. *The reciprocal character of the conjugation action*, Publ. Math. Debrecen **99** (2021), 243–260
59. (with D. Rossi) *Restrictions of characters in p -solvable groups*, J. Algebra **587** (2021), 130–141
60. (with S. Koshitani and C. Lassueur) *Splendid Morita equivalences for principal blocks with semidihedral defect groups*, Proc. Amer. Math. Soc. **150** (2022), 41–53
61. (with C. G. Ardito) *Broué’s Conjecture for 2-blocks with elementary abelian defect groups of order 32*, Adv. Group Theory Appl. **12** (2021), 71–78.
62. (with M. Tărnăuceanu) *On the size of coset unions*, J. Algebraic Combin., **55** (2022), 979–987
63. (with P. Wellmann) *On a bound of Cocks and Venkataraman*, Monatsh. Math. **197** (2022), 505–515

64. (with C. G. Ardito) *Cartan matrices and Brauer's $k(B)$ -Conjecture V*, J. Algebra **606** (2022), 670–699
65. (with G. Navarro) *Alternating sums over π -subgroups*, J. Pure Appl. Algebra **227** (2023), 107227
66. (with N. N. Hung and P. H. Tiep) *Bounding p -Brauer characters in finite groups with two conjugacy classes of p -elements*, to appear in Israel J. Math., arXiv:2102.04443v2
67. *An invitation to formal power series*, to appear in Jahresber. Dtsch. Math.-Ver., DOI:10.1365/s13291-022-00256-6
68. *Real characters in nilpotent blocks*, to appear in Vietnam J. Math. (special issue)
69. (with P. Bhowal, P. J. Cameron and R. K. Nath) *Solvable conjugacy class graph of groups*, submitted, arXiv:2112.02613v2
70. (with G. Navarro) *Characters, Commutators and Centers of Sylow Subgroups*, submitted, arXiv:2204.04407v1
71. (with A. Moretó) *Groups with 2-generated Sylow subgroups and their character tables*, submitted, arXiv:2205.13167v2
72. *On the converse of Gaschütz' complement theorem*, submitted
73. (with J. Murray) *A solution to Brauer's Problem 14*, submitted
74. *Character table sudokus*, submitted
75. (with D. Benson) *Finite dimensional algebras not arising as blocks of group algebras*, submitted

Contributions to proceedings

- *Survey on invariants of blocks of finite groups*, in: Representations of Finite Groups, Oberwolfach Reports **9** (2012), EMS Publishing House, Zürich, 1003–1006
- *Character counting conjectures for π -separable groups*, in: Representations of Finite Groups, Oberwolfach Reports **16** (2019), EMS Publishing House, Zürich, 873

Other publications

- *An answer to a question of Bonnafé*, arXiv:2108.02620v1
- *Square-1: Wie man Weihnachten 2020 verbringt*, Computeralgebra-Rundbrief **68** (2021), 12–15

Editorship

Jahresbericht der DMV

Referee/Reviewer service

Represent. Theory, Math. Z., Algebra Number Theory, J. Algebra, J. Group Theory, Proc. Amer. Math. Soc., J. London Math. Soc., Q. J. Math., J. Aust. Math. Soc., J. Algebra Appl., J. Pure Appl. Algebra, Algebr. Represent. Theory, Math. Nach., Beiträge Algebra Geom., C. R. Math. Acad. Sci. Paris, Comm. Algebra, Algebra Colloq., Arch. Math. (Basel), Arch. Math. (Brno), Proc. Roy. Soc. Edinburgh, Mediterr. J. Math., AIMS Math., Ric. Mat., Acta Math. Sin., Publ. Math. Debrecen, RACSAM, Vietnam J. Math., Afr. Mat., Bull. Malays. Math. Sci. Soc., MathSciNet, DFG, LMS, Friedrich-Naumann-Stiftung

Organized conferences

- (with S. King and J. Müller) *Computations in Groups and Algebras*, February 16–19, 2015, Jena
- (with I. Spilling and S. Danz) *Colloquium on the occasion of B. Külshammer's retirement*, March 24, 2021, Jena (online)
- (with M. Cuntz, T. Holm, and L. Morotti) *Conference in the memory of Christine Bessenrodt*, July 9, 2022, Hannover

Fellowships, Grants and Awards

- 6-months **DAAD** postdoc scholarship (2012, 17.690 EUR)
- (jointly with B. Külshammer) 1-year **DFG** postdoc grant (2012–2015, my part: 64.000 EUR)
- 2-years postdoc grant by the **Carl Zeiss Foundation** (2013–2014, 160.000 EUR)
- 3-years postdoc grant by the **Daimler and Benz Foundation** (2014–2017, 40.000 EUR)
- 5-years **Heisenberg fellowship** SA 2864/3-1 by the DFG (2015–2023, \approx 355.000 EUR)
- 3-years **DFG** grant SA 2864/1-2 for a Ph.D. student (2017–2021, 190.700 EUR)
- **Exam award** of the Faculty for Mathematics and Computer Science (2009)

Hannover, January 24, 2023