

LIST OF PUBLICATIONS

GÖTZ PFEIFFER

Book.

1. (with Meinolf Geck)
Characters of Finite Coxeter Groups and Iwahori–Hecke Algebras.
London Mathematical Society Monographs, New Series **21**. Oxford University Press, 2000. xvi+446 pp. ISBN: 0-19-850250-8.
MR [1778802](#) (2002k:20017). Zbl [0996.20004](#).

Articles.

2. (with Alice C. Niemeyer and Cheryl E. Praeger)
On the Complexity of Multiplication in the Iwahori–Hecke Algebra of the Symmetric Group.
J. Symb. Comp. **80** (2017), 817–832. doi:[10.1016/j.jsc.2016.09.001](#). arXiv:[1512.05319](#).
3. (with Ivan Marin)
The BMR Freeness Conjecture for the 2-Reflection Groups.
Math. Comp. **86** (2017), no. 306, 2005–2023. doi:[10.1090/mcom/3142](#). arXiv:[1411.4760](#).
4. (with Marcus Bishop, J. Matthew Douglass and Gerhard Röhrle)
Computations for Coxeter arrangements and Solomon’s descent algebra III: Groups of rank seven and eight.
J. Algebra **423** (2015), 1213–1232. doi:[10.1016/j.jalgebra.2014.10.025](#). MR [3283755](#). Zbl [1306.20004](#). arXiv:[1403.6227](#).
5. (with J. Matthew Douglass and Gerhard Röhrle)
Cohomology of Coxeter Arrangements and Solomon’s Descent Algebra.
Trans. Amer. Math. Soc. **366** (2014), no. 10, 5379–5407. doi:[10.1090/S0002-9947-2014-06060-1](#). MR [3240927](#). Zbl [06346330](#). OWP [2011-03](#). arXiv:[1101.2075](#).
6. (with J. Matthew Douglass and Gerhard Röhrle)
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Comm. Algebra **41** (2013), no. 7, 2574–2592. doi:[10.1080/00927872.2012.661005](#). MR [3169410](#). Zbl [1282.20040](#). OWP [2011-06](#). arXiv:[1101.5893](#).
7. (with Liam Naughton)
Integer Sequences Realized by the Subgroup Pattern of the Symmetric Group.
J. Integer Seq. **16** (2013), no. 5, Article [13.5.8](#), 23 pages. MR [3065337](#). Zbl [1288.20002](#). arXiv:[1211.1911](#).

8. (with Marcus Bishop)
On the Quiver Presentation of the Descent Algebra of the Symmetric Group.
J. Algebra **383** (2013), 212–231. doi:[10.1016/j.jalgebra.2013.02.027](https://doi.org/10.1016/j.jalgebra.2013.02.027). MR [3037976](#). Zbl [1291.20003](#). arXiv:[1206.0327](#).
9. (with Marcus Bishop, J. Matthew Douglass and Gerhard Röhrle)
Computations for Coxeter arrangements and Solomon’s descent algebra II: Groups of rank five and six.
J. Algebra **377** (2013), 320–332. doi:[10.1016/j.jalgebra.2012.11.047](https://doi.org/10.1016/j.jalgebra.2012.11.047). MR [3008911](#). Zbl [1277.20007](#). arXiv:[1201.4775](#).
10. (with Marcus Bishop, J. Matthew Douglass and Gerhard Röhrle)
Computations for Coxeter arrangements and Solomon’s descent algebra: Groups of rank three and four.
J. Symbolic Comput. **50** (2013), 139–158. doi:[10.1016/j.jsc.2012.06.001](https://doi.org/10.1016/j.jsc.2012.06.001). MR [2996872](#). Zbl [1257.20004](#). arXiv:[1110.0120](#).
11. (with Liam Naughton)
Computing the Table of Marks of a Cyclic Extension.
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12. (with J. Matthew Douglass and Gerhard Röhrle)
An Inductive Approach to Coxeter Arrangements and Solomon’s Descent Algebra.
J. Algebraic Combin. **35** (2012), no. 2, 215–235. doi:[10.1007/s10801-011-0301-9](https://doi.org/10.1007/s10801-011-0301-9). MR [2886288](#) (2012m:05431). Zbl [1248.20006](#). OWP [2011-16](#). arXiv:[1104.0551](#).
13. (with Matjaž Konvalinka and Class Röver)
A Note on Element Centralizers in Finite Coxeter Groups.
J. Group Theory **14** (2011), no. 5, 727–745. doi:[10.1515/JGT.2011.074](https://doi.org/10.1515/JGT.2011.074). MR [2831968](#) (2012j:20125). Zbl [1245.20045](#). arXiv:[1005.1186](#).
14. A Quiver Presentation for Solomon’s Descent Algebra.
Adv. Math. **220** (2009), no. 5, 1428–1465. doi:[10.1016/j.aim.2008.11.005](https://doi.org/10.1016/j.aim.2008.11.005). MR [2493617](#) (2010b:16028). Zbl [1203.20004](#). arXiv:[0709.3914](#).
15. (with C. Bonnafé)
Around Solomon’s Descent Algebras.
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16. (with Robert Boltje)
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17. (with Gerhard Röhrle)
Special Involutions and Bulky Parabolic Subgroups in Finite Coxeter Groups.

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18. Counting Transitive Relations.
J. Integer Seq. **7** (2004), no. 3, Article [04.3.2](#), 11 pages. MR [2085342](#) (2005b:06008). Zbl [1071.06003](#).
19. (with Gerhard Röhrle)
Distributive coset graphs of finite Coxeter groups.
J. Group Theory **6** (2003), no. 3, 311–320. doi:[10.1515/jgth.2003.021](https://doi.org/10.1515/jgth.2003.021). MR [1983369](#) (2004d:20043). Zbl [1062.20045](#).
20. (with M. D. Atkinson and S. v. Willigenburg)
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21. (with S. A. Linton, E. F. Robertson, and N. Ruškuc)
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22. (with Meinolf Geck and Sungsoon Kim)
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23. (with Thomas Breuer)
Finding Possible Permutation Characters.
J. Symbolic Comput. **26** (1998), no. 3, 343–354. doi:[10.1006/jsco.1998.0217](https://doi.org/10.1006/jsco.1998.0217). MR [1633876](#) (99e:20005). Zbl [0921.20013](#).
24. (with S. A. Linton, E. F. Robertson, and N. Ruškuc)
Groups and Actions in Transformation Semigroups.
Math. Z. **228** (1998), no. 3, 435–450. doi:[10.1007/PL00004628](https://doi.org/10.1007/PL00004628). MR [1637855](#) (99e:20078). Zbl [0902.20028](#).
25. The Subgroups of M_{24} or How to Compute the Table of Marks of a Finite Group.
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26. Character Values of Iwahori–Hecke Algebras of Type B .
In: Marc Cabanes (Ed.) *Finite Reductive Groups, Related Structures and Representations (Luminy, 1994)*, Progr. Math. **141**, Birkhäuser, Boston 1997, pp. 333–360. MR [1429879](#) (98a:20008). Zbl [0876.20011](#).
27. (with Meinolf Geck, Gerhard Hiß, Frank Lübeck, and Gunter Malle)
CHEVIE - A System for Computing and Processing Generic Character Tables.
Appl. Algebra Engrg. Comm. Comput. **7** (1996), no. 3, 175–210. doi:[10.1007/s002000050027](https://doi.org/10.1007/s002000050027). MR [1486215](#) (99m:20017). Zbl [0847.20006](#).

28. Young characters on Coxeter basis elements of Iwahori–Hecke algebras and a Murnaghan–Nakayama formula.
J. Algebra **168** (1994), no. 2, 525–535. doi:[10.1006/jabr.1994.1243](https://doi.org/10.1006/jabr.1994.1243). MR [1292779](#) (95g:20012). Zbl [0834.20013](#).
29. Character tables of Weyl groups in GAP.
Bayreuth. Math. Schr. **47** (1994), 165–222. MR [1285208](#) (95d:20027). Zbl [0830.20023](#).
30. (with Meinolf Geck)
 On the irreducible characters of Hecke algebras.
Adv. Math. **102** (1993), no. 1, 79–94. doi:[10.1006/aima.1993.1056](https://doi.org/10.1006/aima.1993.1056). MR [1250466](#) (94m:20018). Zbl [0816.20034](#).
31. (with Meinolf Geck)
 Unipotent characters of the Chevalley groups $D_4(q)$, q odd.
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Theses.

32. *Charakterwerte von Iwahori–Hecke-Algebren von klassischem Typ.*
 Dissertation, RWTH Aachen 1994.
 Aachener Beiträge zur Mathematik **14**, Verlag der Augustinus Buchhandlung, Aachen 1995, 64 pages. ISBN: 3-86073-423-7.
 Zbl [0834.20014](#).
33. *Von Permutationscharakteren und Markentafeln.*
 Diplomarbeit, RWTH Aachen 1991.
 (<http://schmidt.nuigalway.ie/~goetz/pub/dpl.html>)

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34. (with Brendan Masterson)
 On the Table of Marks of a Direct Product of Finite Groups.
 28 pages. arXiv:[1704.03433](#).
35. (with John M. Burns)
 Maximal order Abelian subgroups of Coxeter groups as discrete maximal tori.
 31 pages. arXiv:[1601.07812](#).
36. Quiver Presentations for Descent Algebras of Exceptional Type.
 25 pages.
 arXiv:[0810.2743](#).