

Cohomology

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- [1] A. Adem, J. F. Carlson, D. B. Karagueuzian, and R. James Milgram, *The cohomology of the Sylow 2-subgroup of the Higman-Sims group*, J. Pure Appl. Algebra **164** (2001), no. 3, 275–305. MR MR1857743 (2002g:20089)
- [2] Alejandro Adem, *Recent developments in the cohomology of finite groups*, Notices Amer. Math. Soc. **44** (1997), no. 7, 806–812. MR MR1460209 (98j:20077)
- [3] Alejandro Adem, Dikran Karagueuzian, R. James Milgram, and Kristin Umland, *The cohomology of the Lyons group and double covers of alternating groups*, J. Algebra **208** (1998), no. 2, 452–479. MR MR1655462 (99m:20128)
- [4] Dave Benson, *Dickson invariants, regularity and computation in group cohomology*, Illinois J. Math. **48** (2004), no. 1, 171–197. MR MR2048221 (2005c:20089)
- [5] Inger Christin Borge, *A cohomological approach to the classification of p -groups*, Ph.D. thesis, University of Oxford, 2001.
- [6] John N. Bray and Robert A. Wilson, *Examples of 3-dimensional 1-cohomology for absolutely irreducible modules of finite simple groups*, J. Group Theory **11** (2008), no. 5, 669–673. MR MR2446148
- [7] Jon F. Carlson, *Problems in the calculation of group cohomology*, Computational Methods for Representations of Groups and Algebras (Essen, 1997), Progr. Math., vol. 173, Birkhäuser, Basel, 1999, pp. 107–120. MR MR1714605 (2001i:20111)
- [8] ———, *Calculating group cohomology: Tests for completion*, J. Symbolic Comput. **31** (2001), no. 1-2, 229–242, Computational algebra and number theory (Milwaukee, WI, 1996). MR MR1806218 (2002c:20083)
- [9] ———, *Coclass and cohomology*, J. Pure Appl. Algebra **200** (2005), no. 3, 251–266. MR MR2147269
- [10] ———, *Cohomology, computations, and commutative algebra*, Notices Amer. Math. Soc. **52** (2005), no. 4, 426–434. MR MR2127572 (2006f:20061)

- [11] Jon F. Carlson, Edward L. Green, and Gerhard J. A. Schnieder, *Computing Ext algebras for finite groups*, J. Symbolic Comput. **24** (1997), no. 3-4, 317–325, Computational algebra and number theory (London, 1993). MR MR1484482 (98k:20086)
- [12] Jon F. Carlson, John S. Maginnis, and R. James Milgram, *The cohomology of the sporadic groups J_2 and J_3* , J. Algebra **214** (1999), no. 1, 143–173. MR MR1684888 (2000a:20116)
- [13] Jon F. Carlson, Lisa Townsley, Luis Valeri-Elizondo, and Mucheng Zhang, *Cohomology Rings of Finite Groups*, Algebras and Applications, vol. 3, Kluwer Academic Publishers, Dordrecht, 2003, With an appendix: Calculations of cohomology rings of groups of order dividing 64 by Carlson, Valeri-Elizondo and Zhang. MR MR2028960 (2004k:20110)
- [14] Graham Ellis and Irina Kholodna, *Computing second cohomology of finite groups with trivial coefficients*, Homology Homotopy Appl. **1** (1999), 163–168 (electronic). MR MR1796417 (2001k:20115)
- [15] Graham Ellis and Frank Leonard, *Computing Schur multipliers and tensor products of finite groups*, Proc. Roy. Irish Acad. Sect. A **95** (1995), no. 2, 137–147. MR MR1660373 (99h:20084)
- [16] D. L. Flannery, *Cocyclic Hadamard matrices and Hadamard groups are equivalent*, J. Algebra **192** (1997), no. 2, 749–779. MR MR1452686 (98f:20036)
- [17] D. L. Flannery and E. A. O’Brien, *Computing 2-cocycles for central extensions and relative difference sets*, Comm. Algebra **28** (2000), no. 4, 1939–1955. MR MR1747364 (2001a:20090)
- [18] David J. Green, *Gröbner Bases and the Computation of Group Cohomology*, Lecture Notes in Mathematics, vol. 1828, Springer-Verlag, Berlin, 2003. MR MR2032182 (2005d:20096)
- [19] Derek F. Holt, *Cohomology and group extensions in Magma*, Discovering Mathematics with Magma, Algorithms Comput. Math., vol. 19, Springer, Berlin, 2006, pp. 221–241. MR MR2278930
- [20] Alain LeBel, D. L. Flannery, and K. J. Horadam, *Group algebra series and coboundary modules*, J. Pure Appl. Algebra **214** (2010), no. 7, 1291–1300. MR 2587004 (2011b:20011)

- [21] Yujie Ma, *Cohomology of special 128-groups*, 1999.
- [22] John Martino and Stewart Priddy, *Group extensions and automorphism group rings*, *Homology Homotopy Appl.* **5** (2003), no. 1, 53–70 (electronic). MR MR1989613 (2004e:20091)