

Topology **General Topology**

54Xxx

- [1] H. O. Erdin, *Pattern equivariant representation variety of tiling spaces for any group G*, 2010.
- [2] P. Christopher Staeker, *Computing twisted conjugacy classes in free groups using nilpotent quotients*, 2007.
- [3] ———, *Remnant properties in nielsen coincidence theory*, 2008.

Algebraic Topology

55XX, 55RX, 55SX

- [1] K. K. S. Andersen, J. Grodal, J. M. Møller, and A. Viruel, *The classification of p -compact groups for p odd*, Ann. of Math. (2) **167** (2008), no. 1, 95–210. MR MR2373153 (2009a:55012)
- [2] Thomas Baird, *GKM sheaves and nonorientable surface group representations*, 2010.
- [3] Dave Benson, *Conway’s group Co_3 and the Dickson invariants*, Manuscripta Math. **85** (1994), no. 2, 177–193. MR MR1302871 (95h:55018)
- [4] Carles Broto and Jesper M. Møller, *Embeddings of DI_2 in F_4* , Trans. Amer. Math. Soc. **353** (2001), no. 11, 4461–4479 (electronic). MR MR1851179 (2002e:55015)
- [5] R. F. Brown, M. Furi, L. Górniewicz, and B. Jiang (eds.), *Handbook of Topological Fixed Point Theory*, Springer, Dordrecht, 2005. MR MR2170491 (2006e:55001)
- [6] Robert R. Bruner, Lê M. Hà, and Nguyễn H. V. Hung, *On the behavior of the algebraic transfer*, Trans. Amer. Math. Soc. **357** (2005), no. 2, 473–487 (electronic). MR MR2095619 (2005k:55010)
- [7] O. Davey, E. Hart, and K. Trapp, *Computation of Nielsen numbers for maps of closed surfaces*, Trans. Amer. Math. Soc. **348** (1996), no. 8, 3245–3266. MR MR1370638 (97g:55001)
- [8] Donald M. Davis, *Homotopy type and $v1$ -periodic homotopy groups of p -compact groups*, Topology and its Applications **156** (2008), no. 2, 300 – 321.
- [9] Evelyn L. Hart and Edward C. Keppelmann, *Explorations in Nielsen periodic point theory for the double torus*, Topology Appl. **95** (1999), no. 1, 1–30. MR MR1691929 (2000c:55003)
- [10] ———, *Nielsen periodic point theory for periodic maps on orientable surfaces*, Topology Appl. **153** (2006), no. 9, 1399–1420. MR MR2211207 (2006m:55007)
- [11] John Martino, Stewart Priddy, and Jason Douma, *On stably decomposing products of classifying spaces*, Math. Z. **235** (2000), no. 3, 435–453. MR MR1800206 (2002b:55029)

- [12] Tran Ngoc Nam, *Transfert algébrique et action du groupe linéaire sur les puissances divisées modulo 2*, Ann. Inst. Fourier (Grenoble) **58** (2008), no. 5, 1785–1837. MR MR2445834 (2009g:55025)
- [13] Agnese Ilaria Telloni, *On the groups of some fibered spaces*, J. Group Theory **To appear** (2009).
- [14] R. M. W. Wood, *Problems in the Steenrod algebra*, Bull. London Math. Soc. **30** (1998), no. 5, 449–517. MR MR1643834 (99h:55028)

Homology Theory

55Nxx, 55Pxx, 55Qxx

- [1] Dave Benson, *An algebraic model for chains on ωBG_p^\wedge* , Trans. Amer. Math. Soc. **361** (2009), no. 4, 2225–2242.
- [2] Carles Broto and Jesper M. Møller, *Embeddings of DI_2 in F_4* , Trans. Amer. Math. Soc. **353** (2001), no. 11, 4461–4479 (electronic). MR MR1851179 (2002e:55015)
- [3] Robert R. Bruner, *Some root invariants and Steenrod operations in $\mathrm{Ext}_A(F_2, F_2)$* , Homotopy Theory via Algebraic Geometry and Group Representations (Evanston, IL, 1997), Contemp. Math., vol. 220, Amer. Math. Soc., Providence, RI, 1998, pp. 27–33. MR MR1642887 (99g:55017)
- [4] Robert R. Bruner, Lê M. Hà, and Nguyễn H. V. Hung, *On the behavior of the algebraic transfer*, Trans. Amer. Math. Soc. **357** (2005), no. 2, 473–487 (electronic). MR MR2095619 (2005k:55010)
- [5] Graham Ellis, *On the computation of certain homotopical-functors*, LMS J. Comput. Math. **1** (1998), 25–41 (electronic). MR MR1635723 (99f:55002)
- [6] ———, *Enumerating prime-power homotopy k -types*, Math. Z. **232** (1999), no. 1, 63–71. MR MR1714280 (2000j:55013)
- [7] R. Levi and S. Priddy, *On certain homotopy actions of general linear groups on iterated products*, Ann. Inst. Fourier (Grenoble) **51** (2001), no. 6, 1719–1739. MR MR1871287 (2002k:55022)
- [8] Jesper M. Moeller, *N -determined 2-compact groups*, 2005.
- [9] Jesper M. Møller, *The 2-compact groups in the A -family are N -determined*, 1997.
- [10] ———, *Toric morphisms between p -compact groups*, Cohomological Methods in Homotopy Theory (Bellaterra, 1998), Progr. Math., vol. 196, Birkhäuser, Basel, 2001, pp. 271–306. MR MR1851259 (2002i:55010)
- [11] ———, *N -determined 2-compact groups. I*, Fund. Math. **195** (2007), no. 1, 11–84. MR MR2314074 (2008m:55013)

- [12] _____, *N-determined 2-compactly groups. II*, Fund. Math. **196** (2007), no. 1, 1–90. MR MR2338539 (2009a:55007)
- [13] Aleš Vavpetič and Antonio Viruel, *On the homotopy type of the classifying space of the exceptional Lie group F_4* , Manuscripta Math. **107** (2002), no. 4, 521–540. MR MR1906774 (2003d:55013)

Spectral Sequences

55Txx

- [1] Mark Behrens and Gerd Laures, *β -family congruences and the f -invariant*, 2008.
- [2] Robert R. Bruner, Lê M. Hà, and Nguyễn H. V. Hung, *On the behavior of the algebraic transfer*, Trans. Amer. Math. Soc. **357** (2005), no. 2, 473–487 (electronic). MR MR2095619 (2005k:55010)

Low-dimensional Topology

57Mxx

- [1] E. Bujalance, F. J. Cirre, M. D. E. Conder, and B. Szepietowski, *Finite group actions on bordered surfaces of small genus*, J. Pure Appl. Algebra **214** (2010), no. 12, 2165–2185. MR 2660907
- [2] Emilio Bujalance, F. J. Cirre, and Marston Conder, *On full automorphism groups of Riemann surfaces*, J. Symbolic Comput. **24** (1997), 235–265.
- [3] J. S. Calcut, *Torelli Actions and Smooth Structures on 4-manifolds*, Phd Thesis, University of Maryland, 2004, p. 84.
- [4] ———, *Knot theory and the Casson invariant in the Artin presentation theory*, Fundam. Prikl. Mat. **11** (2005), no. 4, 119–126. MR MR2192960 (2006m:57013)
- [5] J. S. Calcut, *Rationality and the tangent function*, 2006.
- [6] J. S. Calcut, *Artin presentations from an algebraic viewpoint*, J. Algebra Appl. **6** (2007), no. 2, 355–367. MR MR2316429 (2008d:20057)
- [7] ———, *Torelli actions and smooth structures on four manifolds*, J. Knot Theory Ramifications **17** (2008), no. 2, 171–190. MR MR2398732 (2009b:57061)
- [8] J. S. Calcut and H. E. Winkelnkemper, *Artin presentations of complex surfaces*, Bol. Soc. Mat. Mexicana (3) **10** (2004), 63–87. MR MR2199340 (2006i:57002)
- [9] Frank Calegari and Nathan M. Dunfield, *Automorphic forms and rational homology 3-spheres*, Geom. Topol. **10** (2006), 295–329 (electronic). MR MR2224458 (2007h:57013)
- [10] Jason Callahan, *Jorgensen number and arithmeticity*, Conform. Geom. Dyn **13** (2009), 160–186.
- [11] Abhijit Champanerkar, Jacob Lewis, Max Lipyanskiy, and Scott Meltzer, *Exceptional regions and associated exceptional hyperbolic 3-manifolds*, Experiment. Math. **16** (2007), no. 1, 107–118, With an appendix by Alan W. Reid. MR MR2312981 (2008c:57030)
- [12] Marston Conder, *Hurwitz groups: a brief survey*, Bull. Amer. Math. Soc. (N.S.) **23** (1990), no. 2, 359–370. MR MR1041434 (91d:20032)

- [13] ———, *Regular maps with small parameters*, J. Austral. Math. Soc. Ser. A **57** (1994), no. 1, 103–112. MR MR1279289 (95h:05087)
- [14] Marston Conder, *Combinatorial and computational group-theoretic methods in the study of graphs, maps and polytopes with maximal symmetry*, Jack Koolen and Jin Ho Kwak and Ming-Yao Xu, Eds. Applications of Group Theory to Combinatorics, Taylor & Francis Group, London, 2008, pp. 1–11.
- [15] ———, *Genus spectra for symmetric embeddings of graphs on surfaces*, Electronic Notes in Discrete Mathematics **31** (2008), 27 – 31.
- [16] Marston Conder and Brent Everitt, *Regular maps on non-orientable surfaces*, Geom. Dedicata **56** (1995), no. 2, 209–219. MR MR1338960 (96g:05046)
- [17] Marston Conder and Colin Maclachlan, *Compact hyperbolic 4-manifolds of small volume*, Proc. Amer. Math. Soc. **133** (2005), no. 8, 2469–2476 (electronic). MR MR2138890
- [18] Marston Conder, Colin Maclachlan, Sanja Todorovic Vasiljevic, and Steve Wilson, *Bounds for the number of automorphisms of a compact non-orientable surface*, J. London Math. Soc. (2) **68** (2003), no. 1, 65–82. MR MR1980244 (2004b:57025)
- [19] Marston Conder, Gaven Martin, and Anna Torstensson, *Maximal symmetry groups of hyperbolic 3-manifolds*, New Zealand J. Math. **35** (2006), no. 1, 37–62. MR MR2222175 (2006m:57024)
- [20] Marston Conder and Gaven J. Martin, *Cusps, triangle groups and hyperbolic 3-folds*, J. Austral. Math. Soc. Ser. A **55** (1993), no. 2, 149–182. MR MR1232754 (94e:57018)
- [21] Marston Conder, Primož Potočnik, and Jozef Širáň, *Regular hypermaps over projective linear groups*, J. Aust. Math. Soc. **85** (2008).
- [22] Marston Conder and Steve Wilson, *Inner reflectors and non-orientable regular maps*, Discrete Math. **307** (2007), no. 3-5, 367–372. MR MR2287477
- [23] Marston D. E. Conder, *Regular maps and hypermaps of Euler characteristic -1 to -200* , J. Combin. Theory Ser. B **99** (2009), no. 2, 455–459. MR MR2482963 (2010b:05084)

- [24] M. A. Dabkowska, M. K. Dabkowski, V. S. Harizanov, J. H. Przytycki, and M. A. Veve, *Compactness of the space of left orders*, J. Knot Theory Ramifications **16** (2007), no. 3, 257–266. MR MR2320157 (2008a:57022)
- [25] Mieczysław K. Dąbkowski and Józef H. Przytycki, *Burnside obstructions to the Montesinos-Nakanishi 3-move conjecture*, Geom. Topol. **6** (2002), 355–360 (electronic). MR MR1914572 (2003m:57009)
- [26] ———, *Unexpected connections between Burnside groups and knot theory*, Proc. Natl. Acad. Sci. USA **101** (2004), no. 50, 17357–17360 (electronic). MR MR2110443 (2005m:57007)
- [27] Mohamed El Marraki, Nicolas Hanusse, Jörg Zipperer, and Alexander Zvonkin, *Cacti, braids and complex polynomials*, Sémin. Lothar. Combin. **37** (1996), Art. B37b, 36 pp. (electronic). MR MR1462334 (98j:57003)
- [28] B. Everitt and C. Maclachlan, *Constructing hyperbolic manifolds*, Computational and Geometric Aspects of Modern Algebra (Edinburgh, 1998), London Math. Soc. Lecture Note Ser., vol. 275, Cambridge Univ. Press, Cambridge, 2000, pp. 78–86. MR MR1776768 (2001i:57022)
- [29] Brent Everitt, *3-manifolds from Platonic solids*, Topology Appl. **138** (2004), no. 1-3, 253–263. MR MR2035484 (2004m:57031)
- [30] Yan-Quan Feng, Klavdija Kutnar, Aleksander Malnič, and Dragan Marušič, *On 2-fold covers of graphs*, J. Combin. Theory Ser. B **98** (2008), no. 2, 324–341. MR MR2389602 (2009d:05104)
- [31] Véronique Godin, *The unstable integral homology of the mapping class groups of a surface with boundary*, Math. Ann. **337** (2007), no. 1, 15–60. MR MR2262776
- [32] George Havas and L. G. Kovács, *Distinguishing eleven crossing knots*, Computational group theory (Durham, 1982), Academic Press, London, 1984, pp. 367–373. MR MR760671 (86i:57007)
- [33] Stephen P. Humphries, *Intersection-number operators for curves on discs. II*, Geom. Dedicata **86** (2001), no. 1-3, 153–168. MR MR1856422 (2003f:57034)
- [34] ———, *Finite Hurwitz braid group actions for Artin groups*, Israel J. Math. **143** (2004), 189–222. MR MR2106983 (2005i:20061)

- [35] ———, *Intersection-number operators and Chebyshev polynomials. IV. Non-planar cases*, Geom. Dedicata **130** (2007), 25–41. MR MR2365776 (2008i:57019)
- [36] Peter Lorimer, *Four dodecahedral spaces*, Pacific J. Math. **156** (1992), no. 2, 329–335. MR MR1186809 (94a:57026)
- [37] ———, *Models for a finite universe*, Internat. J. Theoret. Phys. **41** (2002), no. 7, 1201–1274. MR MR1923298 (2003h:57020)
- [38] Melissa L. Macasieb, *Derived arithmetic Fuchsian groups of genus two*, Experiment. Math. **17** (2008), no. 3, 347–369. MR MR2455706 (2009i:11135)
- [39] Colin Maclachlan and Alan W. Reid, *The Arithmetic of Hyperbolic 3-manifolds*, Graduate Texts in Mathematics, vol. 219, Springer-Verlag, New York, 2003. MR MR1937957 (2004i:57021)
- [40] Saburo Matsumoto and Richard Rannard, *The regular projective solution space of the figure-eight knot complement*, Experiment. Math. **9** (2000), no. 2, 221–234. MR MR1780207 (2002i:57025)
- [41] Coy L. May, *Groups of even real genus*, J. Algebra Appl. **6** (2007), no. 6, 973–989. MR MR2376795 (2008j:57029)
- [42] Coy L. May and Jay Zimmerman, *The symmetric genus of groups of odd order*, Houston J. Math. **34** (2008), no. 2, 319–338. MR MR2417394
- [43] David Penneys, *A cyclic approach to the annular Temperley-Lieb category*, 2009.
- [44] Richard Rannard, *Computing immersed normal surfaces in the figure-eight knot complement*, Experiment. Math. **8** (1999), no. 1, 73–84. MR MR1685039 (2000h:57031)
- [45] Stephen Tawn, *A presentation for the pure Hilden group*, 2009.
- [46] H. E. Winkelnkemper, *Artin presentations. I. Gauge theory, 3 + 1 TQFT's and the braid groups*, J. Knot Theory Ramifications **11** (2002), no. 2, 223–275. MR MR1895372 (2003b:57045)

Topological Manifolds

57Nxx

- [1] Nathan M. Dunfield and William P. Thurston, *The virtual Haken conjecture: experiments and examples*, Geom. Topol. **7** (2003), 399–441 (electronic). MR MR1988291 (2004i:57024)
- [2] Stephen P. Humphries, *Free products in mapping class groups generated by Dehn twists*, Glasgow Math. J. **31** (1989), no. 2, 213–218. MR MR997819 (90e:57024)
- [3] ———, *An action of subgroups of mapping class groups on polynomial algebras*, Topology Appl. **154** (2007), no. 6, 1053–1083. MR MR2298622

Topological Groups

57Sxx

- [1] Alejandro Adem, James F. Davis, and Özgün Ünlü, *Fixity and free group actions on products of spheres*, Comment. Math. Helv. **79** (2004), no. 4, 758–778. MR MR2099121 (2006a:57034)

Computational Topology

55-04

- [1] Graham Ellis, *On the computation of certain homotopical-functors*, LMS J. Comput. Math. **1** (1998), 25–41 (electronic). MR MR1635723 (99f:55002)