

Combinatorics

Graph Theory

05Cxx

- [1] David Abelson, Seok-Hee Hong, and Donald E. Taylor. A group-theoretic method for drawing graphs symmetrically. In *Graph Drawing*, volume 2528 of *Lecture Notes in Comput. Sci.*, pages 86–97. Springer, Berlin, 2002.
- [2] Eiichi Bannai, Osamu Shimabukuro, and Hajime Tanaka. Finite analogues of non-Euclidean spaces and Ramanujan graphs. *European J. Combin.*, 25(2):243–259, 2004.
- [3] Wayne Barrett, Jason Grout, and Raphael Loewy. The minimum rank problem over the finite field of order 2: minimum rank 3. [arXiv:math.CO/0612331](https://arxiv.org/abs/math/0612331), 38 pages, 2006.
- [4] C. Bates, D. Bundy, S. Perkins, and P. Rowley. Commuting involution graphs for symmetric groups. *J. Algebra*, 266(1):133–153, 2003.
- [5] Norman Biggs. Constructions for cubic graphs with large girth. *Electron. J. Combin.*, 5:Article 1, 25 pp. (electronic), 1998.
- [6] John M. Boyer and Wendy J. Myrvold. On the cutting edge: Simplified $O(n)$ planarity by edge addition. *J. Graph Algorithms Appl.*, 8(3):241–273 (electronic), 2004.
- [7] John Bray, Christopher Parker, and Peter Rowley. Cayley type graphs and cubic graphs of large girth. *Discrete Math.*, 214(1-3):113–121, 2000.
- [8] Marston Conder. Constructing symmetric graphs. *Theta*, 3:11–16, 1989.
- [9] Marston Conder. Group actions on graphs, maps and surfaces with maximum symmetry. In *Groups St. Andrews 2001 in Oxford. Vol. I*, volume 304 of *London Math. Soc. Lecture Note Ser.*, pages 63–91. Cambridge Univ. Press, Cambridge, 2003.
- [10] Marston Conder and Peter Dobcsányi. Determination of all regular maps of small genus. *J. Combin. Theory Ser. B*, 81(2):224–242, 2001.

- [11] Marston Conder and Peter Dobcsányi. Trivalent symmetric graphs on up to 768 vertices. *J. Combin. Math. Combin. Comput.*, 40:41–63, 2002.
- [12] Marston Conder and Brent Everitt. Regular maps on non-orientable surfaces. *Geom. Dedicata*, 56(2):209–219, 1995.
- [13] Marston Conder, Robert Jajcay, and Tom Tucker. Regular Cayley maps for finite abelian groups. *J. Algebraic Comb.*, 25:2259–283, 2007.
- [14] Marston Conder and Cai Heng Li. On isomorphisms of finite Cayley graphs. *European J. Combin.*, 19(8):911–919, 1998.
- [15] Marston Conder and Peter Lorimer. Automorphism groups of symmetric graphs of valency 3. *J. Combin. Theory Ser. B*, 47(1):60–72, 1989.
- [16] Marston Conder, Peter Lorimer, and Cheryl Praeger. Constructions for arc-transitive digraphs. *J. Austral. Math. Soc. Ser. A*, 59(1):61–80, 1995.
- [17] Marston Conder, Aleksander Malnič, Dragan Marušič, Tomaž Pisanski, and Primož Potočnik. The edge-transitive but not vertex-transitive cubic graph on 112 vertices. *J. Graph Theory*, 50(1):25–42, 2005.
- [18] Marston Conder, Aleksander Malnič, Dragan Marušič, and Primož Potočnik. A census of semisymmetric cubic graphs on up to 768 vertices. *J. Algebraic Combin.*, 23(3):255–294, 2006.
- [19] Marston Conder and Dragan Marušič. A tetravalent half-arc-transitive graph with non-abelian vertex stabilizer. *J. Combin. Theory Ser. B*, 88(1):67–76, 2003.
- [20] Marston Conder, Margaret Morton, and Cheryl E. Praeger. Partition graphs for finite symmetric groups. *J. Graph Theory*, 25(2):107–117, 1997.
- [21] Marston Conder, Margaret Morton, and Cheryl E. Praeger. Two-arc closed subsets of graphs. *J. Graph Theory*, 42(4):350–364, 2003.
- [22] Marston Conder and Roman Nedela. Symmetric cubic graphs of small girth. *J. Combin. Theory Ser. B*, 97:757–768, 2007.

- [23] Marston Conder and Steve Wilson. Inner reflectors and non-orientable regular maps. *Discrete Math.*, 307(3-5):367–372, 2007.
- [24] Marston D. E. Conder and Cameron G. Walker. The infinitude of 7-arc-transitive graphs. *J. Algebra*, 208(2):619–629, 1998.
- [25] Italo J. Dejter. On Clique Turan graph-homogeneity. [arXiv:0704.2146](https://arxiv.org/abs/0704.2146), 20 pages, 2007.
- [26] Italo J. Dejter. On $(K_4, K_{2,2,2})$ -ultrahomogeneity. [arXiv:0704.1493](https://arxiv.org/abs/0704.1493), 16 pages, 2007.
- [27] Xin Gui Fang, George Havas, and Cheryl E. Praeger. On the automorphism groups of quasiprimitive almost simple graphs. *J. Algebra*, 222(1):271–283, 1999.
- [28] Xin Gui Fang, George Havas, and Jie Wang. Automorphism groups of certain non-quasiprimitive almost simple graphs. In *Groups St. Andrews 1997 in Bath, I*, volume 260 of *London Math. Soc. Lecture Note Ser.*, pages 267–274. Cambridge Univ. Press, Cambridge, 1999.
- [29] Yan-Quan Feng, Klavdija Kutnar, Aleksander Malnič, and Dragan Marušič. On 2-fold covers of graphs. [arXiv:math.CO/0701722](https://arxiv.org/abs/math/0701722), 18 pages, 2007.
- [30] Louis Ferré and Bertrand Jouve. Vertex partitioning of a class of digraphs. *Math. Sci. Hum.*, (158):59–77, 2002.
- [31] Michael Giudici, Cai Heng Li, Primož Potočnik, and Cheryl E. Praeger. Homogeneous factorisations of complete multipartite graphs. *Discrete Math.*, 307(3-5):415–431, 2007.
- [32] Jason Grout. *Ultraconnected and Critical Graphs*. Master of science, Brigham Young University, 2003.
- [33] Paul R. Hafner. Large Cayley graphs and digraphs with small degree and diameter. In *Computational Algebra and Number Theory (Sydney, 1992)*, volume 325 of *Math. Appl.*, pages 291–302. Kluwer Acad. Publ., Dordrecht, 1995.
- [34] Paul R. Hafner. Geometric realisation of the graphs of McKay-Miller-širáň. *J. Combin. Theory Ser. B*, 90(2):223–232, 2004.

- [35] Paul R. Hafner. On the graphs of Hoffman-Singleton and Higman-Sims. *Electron. J. Combin.*, 11(1):Research Paper 77, 33 pp. (electronic), 2004.
- [36] Robert E. Jamison and Gretchen L. Matthews. Distance k colorings of Hamming graphs. *Preprint*, 10 pages, 2006.
- [37] Peter Keevash and Benny Sudakov. Packing triangles in a graph and its complement. *J. Graph Theory*, 47(3):203–216, 2004.
- [38] Klavdija Kutnar, Aleksander Malnič, Dragan Marušič, and Štefko Miklavič. Distance-balanced graphs: Symmetry conditions. *Discrete Math.*, 306(16):1881–1894, 2006.
- [39] Klavdija Kutnar and Dragan Marušič. Hamiltonicity of vertex-transitive graphs of order $4p$. [arXiv:math.CO/0606585](https://arxiv.org/abs/math/0606585), 17 pages, 2006.
- [40] Klavdija Kutnar and Primož Šparl. Hamilton paths and cycles in vertex-transitive graphs of order $6p$. [arXiv:math/0702182](https://arxiv.org/abs/math/0702182), 21 pages, 2007.
- [41] Felix Lazebnik and Raymond Viglione. An infinite series of regular edge-but not vertex-transitive graphs. *J. Graph Theory*, 41(4):249–258, 2002.
- [42] Paulette Lieby. Colouring planar graphs. In *Discovering Mathematics with Magma*, volume 19 of *Algorithms Comput. Math.*, pages 315–330. Springer, Berlin, 2006.
- [43] Tian Khoon Lim. Edge-transitive homogeneous factorisations of complete graphs. [arXiv:math.CO/0605253](https://arxiv.org/abs/math.CO/0605253), 130 pages, 2004.
- [44] Tian Khoon Lim. Arc-transitive homogeneous factorizations and affine planes. *J. Combin. Des.*, 14(4):290–300, 2006.
- [45] Tian Khoon Lim and Cheryl E. Praeger. On generalised Paley graphs and their automorphism groups. [arXiv:math/0605252](https://arxiv.org/abs/math/0605252), 20 pages, 2006.
- [46] Marko Lovrečič Saražin, Walter Pacco, and Andrea Previtali. Generalizing the generalized Petersen graphs. *Discrete Math.*, 307(3-5):534–543, 2007.
- [47] Aleksander Malnič, Dragan Marušič, Štefko Miklavič, and Primož Potočnik. Semisymmetric elementary abelian covers of the Möbius-Kantor graph. [arXiv:math.CO/0510383 v1](https://arxiv.org/abs/math.CO/0510383), 22 pages, 2005.

- [48] Aleksander Malnič, Dragan Marušič, and Primož Potočnik. Elementary abelian covers of graphs. *J. Algebraic Combin.*, 20(1):71–97, 2004.
- [49] Aleksander Malnič, Dragan Marušič, and Primož Potočnik. On cubic graphs admitting an edge-transitive solvable group. *J. Algebraic Combin.*, 20(1):99–113, 2004.
- [50] Aleksander Malnič, Dragan Marušič, and Primož Šparl. On strongly regular bicirculants. *European J. Combin.*, 28(3):891–900, 2007.
- [51] Aleksander Malnič and Primož Potočnik. Invariant subspaces, duality, and covers of the Petersen graph. *European J. Combin.*, 27(6):971–989, 2006.
- [52] Dragan Marušič. On 2-arc-transitivity of Cayley graphs. *J. Combin. Theory Ser. B*, 87(1):162–196, 2003.
- [53] Dragan Marušič and Primož Potočnik. Bridging semisymmetric and half-arc-transitive actions on graphs. *European J. Combin.*, 23(6):719–732, 2002.
- [54] Margaret Morton. A note on arc-transitive circulants. *Bull. Inst. Combin. Appl.*, 23:63–68, 1998.
- [55] Alen Orbančić. Parallel-product decomposition of edge-transitive maps. [arXiv:math.CO/0510428](https://arxiv.org/abs/math/0510428), 30 pages, 2005.
- [56] Michael E. O’Sullivan. Algebraic construction of sparse matrices with large girth. *IEEE Trans. Inform. Theory*, 52(2):718–727, 2006.
- [57] C. W. Parker. Semisymmetric cubic graphs of twice odd order. *European J. Combin.*, 28(2):572–591, 2007.
- [58] Christopher Parker and Peter Rowley. Ω -covers of graphs. *Bull. London Math. Soc.*, 32(6):658–662, 2000.
- [59] Christopher Parker and Peter Rowley. Subgroup-chain graphs. *Graphs Combin.*, 19(4):537–545, 2003.
- [60] Manley Perkel and Cheryl E. Praeger. Polygonal graphs: New families and an approach to their analysis. In *Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory*

and Computing (Boca Raton, FL, 1997), volume 124, pages 161–173, 1997.

- [61] Manley Perkel, Cheryl E. Praeger, and Richard Weiss. On narrow hexagonal graphs with a 3-homogeneous suborbit. *J. Algebraic Combin.*, 13(3):257–273, 2001.
- [62] Cheryl E. Praeger and Leonard H. Soicher. *Low Rank Representations and Graphs for Sporadic Groups*, volume 8 of *Australian Mathematical Society Lecture Series*. Cambridge University Press, Cambridge, 1997.
- [63] Nicolas M. Thiéry. Algebraic invariants of graphs; A study based on computer exploration. *SIGSAM Bulletin*, 34(3):9–20, 2000.
- [64] Libero Verardi. Matrices, graphs and equivalence relations. *Ann. Mat. Pura Appl. (4)*, 180(4):413–428, 2002.
- [65] Yan Wang, Xin Gui Fang, and D. F. Hsu. On the edge-forwarding indices of Frobenius graphs. *Acta Math. Sin. (Engl. Ser.)*, 22(6):1735–1744, 2006.
- [66] Doug Wiedemann and Michael Zieve. Equivalence of sparse circulants: The bipartite Adam problem. [arXiv:0706.1567](https://arxiv.org/abs/0706.1567), 20 pages, 2007.