

List C.

Recent and forthcoming publications.

Version of April 27 2007.

This list contains combinatorial books and papers, with at least one UK based author, that have been published, accepted or submitted for publication since the last issue of the *Bulletin* - i.e., during (approximately) the period April 2006-April 2007 - and have come to the attention of the BCB Editor. The intention is that papers whose status has changed (e.g. by being accepted, or appearing in print) will appear again, but *not* those which are still under consideration or revision, or are still waiting to be published. The intention is that authors are listed in alphabetical order by surname, even if that is not the order in which they appear on the paper, and that all co-authors are cross-referenced to.

This list should not be taken as a complete record of all such publications during the period, and absence of listed papers for any individual should not be taken to imply absence of research activities.

Abraham, D. J., Irving, R. W. and Manlove, D. F.

Two algorithms for the student-project allocation problem. *J. Discrete Algorithms*, **5** (2007) 73-90.

Adams, P., Bryant, D. E., Grannell, M. J. and Griggs, T. S.

Diagonally switchable 4-cycle systems, *Australas. J. Combin.*, **34** (2006) 145-152.

Adamy, U., Ambühl, C., Anand, R. S. and Erlebach, T.

Call control in rings. *Algorithmica* **47** (2007), 217-238.

Addario-Berry, L., Dalal, K., McDiarmid, C., Reed, B. A. and Thomason, A.

Vertex-Colouring Edge-Weightings. *Combinatorica* **27** (2007) 1-12.

Albert, M.H., Linton, S.A. and Ruškuc, N.

On the permutational power of token passing networks. *Theor. Comput. Sci*, to appear.

Alon, N., Bollobás, B., Gyárfás, A., Lehel, J. and Scott, A. D.

Maximum cuts in directed graphs. *J. Graph Theory* **55** (2007) 1-13.

Alon, N., Brightwell, G., Kierstead, H. A., Kostochka, A. V. and Winkler, P.

Dominating sets in k -majority tournaments. *J. Comb. Theory Ser. B.* **96** (2006) 374-387.

Alpern, S. and Baston, V.

A common notion of clockwise can help in planar rendezvous. *Eur. J. Oper. Res.* **175**, (2006) 688-706.

Alpern, S. and Baston, V.

Rendezvous in Higher Dimensions. *SIAM J. Control Optim.* **44** (2006) 2233-2252.

Ambühl, C.

[see: Adamy, U.]

Anand, R.S.

[see: Adamy, U.]

Anderson, I.

Early examples of spouse avoidance. *Bull. Inst. Comb. Appl.*, to appear.

Anderson, I.

Euler and Combinatorics. *Math. Gaz.* to appear

Anderson, I., Colbourn, C. J., Dinitz, J. H. and Griggs, T. S.

Design Theory: Antiquity to 1950. In: *C.R.C. Handbook of Combinatorial Designs*, second edition (eds. C.J. Colbourn and J.H. Dinitz), Chapter 3, 11-22, 2006.

Anderson, I. and Ellison, L.

Z -cyclic directed Moore (2,6) generalised whist tournament designs on p elements where $p \equiv 7 \pmod{12}$, *Ars Comb.* To appear.

Anderson, I. and Ellison, L.

Further results on logarithmic terraces. *Discrete Math.* To appear.

Anderson I., Finizio N. J.

Whist tournaments. In: *CRC Handbook of Combinatorial designs*, second edition (2007), 663-668.

Anderson, I. and Preece, D. A.

Two special terraces for Z_{121} . *Bull. Inst. Comb. Appl.* **49** (2007), 93-98.

Anderson, I. and Preece, D. A.

Some narcissistic power-sequence Z_{n+1} terraces with n an odd prime power. *Ars Comb.*, to appear.

Anderson, I. and Preece, D. A.

A general approach to constructing power sequence terraces for Z_n . *Discrete Math.*, to appear.

Anthony, M. and Franco, L.

The influence of oppositely classified examples on the generalization complexity of Boolean functions. *IEEE Transactions on Neural Networks* **17** (2006) 578-590.

Anthony, M. and Hammer, P. L.

A Boolean measure of similarity. *Discrete Appl. Math.* **154** (2006) 2242-2246

Aouchiche M., Bell F. K., Cvetković D., Hansen P., Rowlinson P., Simič S. and Stevanovič, D.

Variable neighbourhood search for extremal graphs 16: some conjectures related to the largest eigenvalue of a graph. *European Journal of Operational Research*, to appear.

Arhin, J.

On the structure of 1-designs with at most two block intersection numbers. *Des. Codes Cryptography*, to appear

Baake, M. and Grimm, U.

Multiple planar coincidences with N -fold symmetry. *Zeitschrift für Kristallographie* **221** (2006) 571-581

Baake, M. and Grimm, U.

Averaged coordination number of planar aperiodic tilings. *Philosophical Magazine* **86** 567-572 (2006).

Baake, M., Heuer, M. and Moody, R.V.

Similar sublattices of the root lattice A_4 . Submitted.

Babbage, S., Cid, C., Pramstaller, N. and Raddum, H.,

Cryptanalysis of Hermes8F. In: *Proceedings of SASC* (State of the art in Stream Ciphers). 2007.

Bailey, R. A. and Cameron, P. J.

A family of balanced incomplete-block designs with repeated blocks on which general linear groups act. *J. Comb. Des.* **15** (2007), 143-150.

doi: 10.1002/jcd.20120

Bailey, R. A. and Cameron, P. J.

What is a design? How should we classify them? *Des. Codes Cryptography*, to appear

Bailey, R. A., Cameron, P. J. and Connelly, R.

Sudoku, gerechte designs, resolutions, affine space, spreads, reguli, and Hamming codes. *Amer. Math. Monthly*, to appear.

Bailey, R. A., Cameron, P. J., Dobcsányi, P., Morgan, J. P., and Soicher, L. H.

Designs on the Web. *Discrete Math.*, **306** (2006) 3014-3027.

doi: 10.1016/j.disc.2004.10.027

Bailey, R. F.

Uncoverings-by-bases for base-transitive permutation groups. *Des. Codes Cryptography* **41** (2006), 153-176.

doi: 10.1007/s10623-006-9005-x

Bailey, R. F. and Dixon, J. P.

Distance enumerators for permutation groups. *Commun. Algebra*, to appear.

Barbina, S. and Macpherson, H. D.

Reconstruction of homogeneous relational structures. *J. Symb. Log.*, to appear.

Barwick, S. G., Jackson, W.-A., Martin, K. M. and O'Keefe, C. M.

Optimal updating of ideal threshold schemes. *Australas. J. Combin.*, to appear.

Baston, V.

[see: Alpern, S.]

Batty, A., Braunstein, S. L. and Duncan, A. J.

Extending the Promise of the Deutsch-Jozsa-Hoyer Algorithm for Finite Groups. *LMS J. Comput. Math* **9** (2006) 40-63.

Bauer, D., Broersma, H. J. and Schmeichel, E.

Toughness in graphs: a survey. *Graphs Comb.* **22** (2006) 1-35.

Baur, K.

Richardson elements for the classical Lie algebras. *J. Algebra*, to appear.

Baur, K. and Marsh, R. J.

A note on frieze patterns of cluster variables. *J. Comb. Theory Ser. A.*, submitted.

Baur, K. and Marsh, R. J.

A geometric description of the m -cluster categories of type D_n . *IMRN*, to appear.

Baur, K. and Marsh, R. J.

A geometric construction of m -cluster categories. *Trans. Am. Math. Soc.*, to appear.

Baur, K., Draisma, J., de Graaf, W.

Secant Dimensions of Minimal Orbits: Computations and Conjectures. *Exp. Math.*, to appear.

Bell, F.K., Cvetkovič D., Rowlinson P. and Simič S.,

Graphs for which the least eigenvalue is minimal I. Submitted.

Bell, F.K.

[see: Aouchiche, M.]

Bennett, G.K., Grannell, M.J., Griggs, T.S., Korzik, V.P. and Širáň, J.

Small surface trades in triangular embeddings. *Discrete Math.* **306** (2006) 2637-2646.

Bennett, G.K., Grannell, M.J., Griggs, T.S.

Orientable self-embeddings of Steiner triple systems of order 15. *Acta Math. Univ. Comenian* **75** (2006) 163-172.

- Berenbrink, P., Czumaj, A., Steger, A. and Voecking, B.**
Balanced Allocations: The Heavily Loaded Case. *SIAM J. Comput.* **35** (2006) 1350-1385.
- Berman, P., Karpinski, M. and Scott, A. D.**
Computational complexity of some restricted instances of 3-SAT. *Discrete Appl. Math.* **155** (2007) 649-653.
- Bhattacharjee, M. and Macpherson, H. D.**
Jordan groups and limits of betweenness relations. *J. Group Theory* **9** (2006), 59-94.
- Bhutani, K., Kahn, B., Kahrobaei, D.**
A Graphic Generalisation of Arithmetic. *Integers*, to appear.
- Biró, P. and Čechlarova, K.**
Inapproximability of the kidney exchange problem. *Inf. Process. Lett.* **101** (2007), 199-202.
- Biró, P., Čechlarova, K. and Fleiner, T.**
The dynamics of stable matchings and half-matchings for the stable marriage and roommates problems. *Int. J. Game Theory*, to appear.
- Biró, P.**
[see: Abraham, D.J.]
- Blackburn, S. R.**
Two Dimensional Runlength Constrained Arrays with Equal Horizontal and Vertical Constraints. *IEEE Trans. Inf. Theory*, **52** (2006), 3305-3309.
- Blackburn, S. R. and Shparlinski, I. E.**
Character sums and nonlinear recurrence sequences. *Discrete Math.* **306** (2006), 1132-1138. An erratum to this paper has appeared: *Discrete Math.* **307** (2007), 1218-1219.
- Blackburn, S. R.**
Sets of permutations that generate the symmetric group pairwise. *J. Comb. Theory Ser. B* **113** (2006), 1572-1581.
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Monomiality principle, Sheffer-type polynomials and the normal ordering problem. *J. Physics: Conf. Ser.* **30** (2006) 86–97.
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Hopf algebra structure of a model quantum field theory. 26th International Colloquium on Group Theoretical Methods in Physics, 2006.
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Combinatorics of boson normal ordering: A gentle introduction. *Amer. J. Phys.*, to appear.
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Feynman graphs and related Hopf algebras. *J. Physics: Conf. Ser.* **30** (2006) 107–118.
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A multipurpose Hopf deformation of the algebra of Feynman-like diagrams. *26th International Colloquium on Group Theoretical Methods in Physics*, 2006.
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Dobinski relations and ordering of boson operators. *Czech J. Phys.* **56** (2006) 1093–1098.
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Dobinski-type relations: Some properties and physical applications. *J. Physics A: Math. Gen.* **39** (2006) 4999–5006.
- Bodirsky, M., Kang, M., Löffler, M. and McDiarmid, C.**
Random cubic planar graphs. *Random Struct. Algorithms* **30** (2007) 78-94.
- Bodlaender, H.L., Fomin, F. V., Koster, A. M. C. A., Kratsch, D. and Thilikos, D. M.**
On exact algorithms for treewidth. In: Proceedings 14th Annual European Symposium on Algorithms, ESA 2006, *Lect. Notes Comput. Sci.* **4168**, Springer, 2006, 672-683.
- Bodlaender, H. L. and Koster, A. M. C. A.,**
Safe separators for treewidth. *Discrete Math.* **306** (2006), 337-350.
- Bodlaender, H. L., Wolle, T. and Koster, A. M. C. A.,**
Contraction and treewidth lower bounds. *J. Graph Algorithms Appl.* **10** (2006) 5-49.
- Bollobás, B. and Brightwell, G.**
How many graphs are unions of k -cliques? *J. Graph Theory* **52** (2006) 87-107.
- Bollobás, B. and Leader, I. B.**
The Angel and the Devil in three dimensions. *J. Comb. Theory, Ser. A* **113** (2006) 176-184.
- Bollobás, B. and Riordan, O.**
Sharp thresholds and percolation in the plane. *Random Struct. Algorithms* **29** (2006) 524-548.
- Bollobás, B. and Riordan, O.**
A short proof of the Harris-Kesten theorem. *Bull. Lond. Math. Soc.* **38** (2006) 470-484.
- Bollobás, B. and Riordan, O.**
The critical probability for random Voronoi percolation in the plane is $1/2$. *Probab. Theory Relat. Fields* **136**, (2006) 417-468.
- Bollobás, B. and Riordan, O.**
Percolation. Cambridge University Press, 2006.
- Bollobás, B., Scott A. D.**
On separating systems. *Eur. J. Comb.* **28** (2007) 1068-1071.
- Bollobás, B. and Scott A. D.**
Separating systems and oriented graphs of diameter 2. *J. Comb. Theory Ser. B.* **97** (2007) 193-203.
- Bollobás, B. and Scott A. D.**
Discrepancy in graphs and hypergraphs. In: *More sets, graphs and numbers*, Bolyai Soc. Maths. Stud. **15**, 33-56. Springer, Berlin, 2006.
- Bollobás, B. and Thomason, A.G.**
Set colourings of graphs. *Discrete Math.* **306** (2006) 948-952.
- Bollobás, B.**
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- Bordewich, M. and Dyer, M.**
Path coupling without contraction. *J. Discrete Algorithms*. To appear. .
- Bordewich, M., Dyer, M. and Karpinski, M.**
Stopping times, metrics and approximate counting. In: Bugliesi, M, Preneel, B, Sassone, V and Wegener, I (editors) *Automata, Languages and Programming: 33rd International Colloquium, Proceedings Part I*, 108-119. Springer-Verlag, 2006.
- Borodin, O.V., Broersma, H.J., Glebov, A. and van den Heuvel, J.**

A new upper bound on the cyclic chromatic number. *J. Graph Theory* **54** (2007) 58-72.

Brandstaedt, A., Engelfriet, J., Le, H.-O., and Lozin, V.V.,
Clique-Width for Four-Vertex Forbidden Subgraphs. *Theory Comput. Syst.* **34** (2006) 561-590.

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Global connectivity and expansion long cycles and factors in f -connected graphs. *Combinatorica* **26** (2007) 17-36.

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A combinatorial interpretation of identities involving Stirling numbers and their generalizations. *The Fibonacci Quarterly* **44** (2006) 131-140.

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Stirling number representations. *Discrete Math.* **306** (2006) 478-494.

Braunstein, S. L.

[see: Batty, A.]

Brightwell, G., van den Heuvel, J. and Stougie, L.
A linear bound on the diameter of the transportation polytope. *Combinatorica* **26** (2006) 133-139.

Brightwell, G., Leader, I., Scott, A. and Thomason A. (eds.)
Combinatorics and Probability. CUP, 2007.

Brightwell, G.
[see: Alon, N., Bollobás, B.]

Brignall, R., Huczynska, S. and Vatter, V.
Simple permutations and algebraic generating functions. *J. Comb. Theory Ser. A*, to appear.

Brignall, R., Huczynska, S. and Vatter, V.
Decomposing simple permutations, with enumerative consequences. Submitted.

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Cyclic, separable and semisimple transformations in the special unitary groups over a finite field. *J. Group Theory* **9** (2006) 547-569.

Britnell, J. R.
Cyclic, separable and semisimple transformations in the finite conformal groups. *J. Group Theory* **9** (2006) 571-601.

Britnell, J. R.
Cycle index methods for finite groups of orthogonal type. *J. Group Theory* **9** (2006) 753-773.

Britnell, J. R. and Fulman, J.
Power series coefficients for probabilities in finite classical groups. *J. Algebra* **305** (2006) 1212-1237.

Broersma, H.J., Fomin, F.V., Kralovic, R. and Woeginger, G.J.
Eliminating graphs by means of parallel knock-out schemes. *Discrete Applied Mathematics* **155** (2007) 92-102.

Broersma, H.J., Fomin, F.V., Golovach, P.A. and Woeginger, G.J.
Backbone colorings for graphs: tree and path backbones. *J. Graph Theory* (2007)

Broersma, H. J., Fomin, F. V., Kratochvil, J. and Woeginger, G. J.
Planar graph coloring avoiding monochromatic subgraphs trees and paths make it difficult. *Algorithmica* **44** (2006) 343-361.

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Integral trees of diameter 6. *Discrete Appl. Math.*
- Broersma, H.J. and Salman, A.N.M.**
Path-fan Ramsey numbers. *Discrete Appl. Math.* **154** (2006) 1429-1436.
- Broersma, H.J. and Salman, A.N.M.**
On Ramsey numbers for paths versus wheels. *Discrete Math.* **306** (2006)
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Subpancyclicity of line graphs and degree sums along paths. *Discrete Appl. Math.* **154** (2006) 1453-1463.
- Broersma, H.J., Xiong, L. and Yoshimoto, K.**
Toughness and hamiltonicity in k -trees. *Discrete Math.*, to appear.
- Broersma, H. J.**
[see also: Bauer, D., Borodin, O.V, Brandt. S.]
- Brouwer, A. E., Cameron, P.J., Haemers, W. H and Preece, D. A.**
Self-dual, not self-polar. *Discrete Math.* **306** (2006), 3051-3053.
doi: 10.1016/j.disc.2004.11.027
- Bryant, D. E.**
[see: Adams, P.]
- Buan, A. B. and Marsh, R. J.**
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- Buan, A. B. Marsh, R. J. and Reiten, I.**
Cluster-tilted algebras of finite representation type. *J. Algebra* **306** (2006) 412-431
- Buan, A. B., Marsh, R. J., Reineke, M., Reiten, I. and Todorov, G.**
Tilting theory and cluster combinatorics. *Adv. Math.* **204** (2006) 572-618.
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Hamilton Cycles in Random Lifts of Graphs. *Eur. J. Comb.* **27** (2006) 1282-1293.
- Cain, A. J.**
A group-embeddable non-automatic semigroup whose universal group is automatic. *Glasg. Math. J.* **48** (2006), 337-342.
- Cain, A. J.**
Cancellativity is undecidable for automatic semigroups. *Q. J. Math.* **57** (2006), 285-295.
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Subsemigroups of virtually free groups: finite Malčev presentations and testing for freeness, *Math. Proc. Camb. Philos. Soc.* **141** (2006) 57-66.
- Cain, A. J., Robertson, E. F., and Ruškuc, N.**
Subsemigroups of groups: presentations, Malčev presentations, and automatic structures. *J. Group Theory* **9** (2006) 397-426.
- Cain, A. J., Robertson, E. F., and Ruškuc, N.**
Cancellative and Malčev presentations for finite Rees index subsemigroups and extensions. *J. Aust. Math. Soc.* To appear.
- Cameron, P. J.**

Finite geometry and permutation groups: some polynomial links,
Rendiconti di Matematica (VII) **26** (2006), 339-350.

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Cameron, P. J., Cilleruelo, J. and Serra, O.

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Cameron, P. J. and Dent, A. W.

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Cameron, P. J. and Deza, M. M.

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The number of equivalence classes of symmetric sign patterns. *Discrete Math.* **306** (2006), 3074-3077.

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Orbital chromatic and flow roots. *Comb. Probab. Comput.*, to appear.

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On the quantum chromatic number of a graph. *Electron. J. Combin.*, to appear.

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Asymptotic enumeration of incidence matrices. *J. Physics (Conference Series)* **42** (2006), 59-70.

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A design and a geometry for the group F_{22} . *Des. Codes Cryptography*, to appear.

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Semiregular automorphisms of vertex-transitive cubic graphs. *Eur. J. Comb.* **27** (2006), 924-930.

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Min-wise independent families with respect to any linear order. *Comm. Algebra*, to appear.

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Games with secure equilibria. *Theor. Comput. Sci.* **365**, 2006.

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Lot-sizing scheduling with batch setup times. *J. Sched.* **9** (2006), 299-310.

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Hardness results on the man-exchange stable marriage problem with short preference lists. *Inf. Process. Let.* **101** (2007) 13-19.

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Cid, C.

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[see: Cameron, P.J.]

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The strong primitive normal basis theorem. Submitted.

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[see: Anderson, I.]

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Balanced matrices. *Discrete Math.* **306** (2006) 2411-2437.

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Odd hole recognition in graphs of bounded clique size. *SIAM Journal on Discrete Mathematics* **20** (2006) 42-48.

Connelly, R.

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3-uniform hypergraphs of bounded degree have linear Ramsey numbers. Submitted.

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