

## LIST OF PUBLICATIONS OF JÓZSEF BALOGH

- [1] J. BALOGH, On the non-existence of cyclic MDS codes, *Atti Sem. Mat. Fis. Univ. Modena*, **46** (1998), 27–33.
- [2] J. BALOGH AND G. PETE, Random disease on the square grid, *Random Structures and Algorithms*, **13** (1998), 409–422.
- [3] J. BALOGH AND A. PLUHÁR, A sharp edge bound on the interval number of a graph, *J. Graph Theory*, **32** (1999), 153–159.
- [4] J. BALOGH, B. BOLLOBÁS, AND D. WEINREICH, The speed of hereditary properties of graphs, *J. Combin. Theory Ser. B*, **79** (2000), 131–156.
- [5] J. BALOGH, B. BOLLOBÁS, AND D. WEINREICH, The penultimate rate of growth for graph properties, *European J. Combin.*, **22** (2001), 277–289.
- [6] J. BALOGH, B. BOLLOBÁS, AND D. WEINREICH, Measures on monotone properties of graphs, *Discrete Applied Mathematics*, **116** (2002), 17–36.
- [7] J. BALOGH AND A. PLUHÁR, The interval number of dense graphs, *Discrete Mathematics*, **256** (2002), 423–429.
- [8] N. ALON, J. BALOGH, B. BOLLOBÁS, AND T. SZABÓ, The Game Domination Number, *Discrete Mathematics*, **256** (2002), 23–33.
- [9] J. BALOGH, The Turán density of triple systems is not principal, *J. Comb Theory A.*, **100** (2002), 176–180.
- [10] J. BALOGH AND B. BOLLOBÁS, Sharp thresholds in bootstrap percolation, *Physica A.*, **326** (2003), 305–312.
- [11] J. BALOGH, J. CSIRIK, Y. ISHAI, AND E. KUSHULEWITZ, Private Computation Using a PEZ Dispenser, *Theoretical Computer Science*, **306** (2003), 69–84.
- [12] N. ALON, J. BALOGH, P. KEEVASH, AND B. SUDAKOV, The number of edge colorings with no monochromatic cliques, *J. London Math. Soc.*, **70** (2004), 273–288.
- [13] J. BALOGH, B. BOLLOBÁS AND M. SIMONOVITS, The number of graphs without forbidden subgraphs, *Journal of Combinatorial Theory B*, **91** (2004), 1–24.
- [14] J. BALOGH AND J. A. CSIRIK, Index assignment for two-channel quantization, *IEEE Transactions on Information Theory* **11** Vol. 50 November (2004), 2737–2751.

- [15] J. BALOGH, P. OCHEM, AND A. PLUHÁR, On the interval number of Special Graphs, *J. Graph Theory*, **46** (2004), 241–253.
- [16] J. BALOGH, O. REGEV, C. SMYTH, W. STEIGER, AND M. SZEGEDY, Long monotone paths in line arrangement, *Discrete Comput. Geom.*, **32** (2004), 167–176.
- [17] J. BALOGH, B. BOLLOBÁS, AND D. WEINREICH, A jump to the Bell number for hereditary graph properties, *J. Combin. Theory Ser. B*, **95** (2005), 29–48.
- [18] J. BALOGH, M. KOCHOL, A. PLUHÁR, AND X. YU, Covering of planar graphs with forests, *J. Comb. Theory Ser. B*, (2005) 147–158.
- [19] J. BALOGH, P. KEEVASH, AND B. SUDAKOV, Disjoint representability of sets and their complements, *J. of Combinatorial Theory Ser. B*, **95** (2005), 12–28.
- [20] J. BALOGH AND B. BOLLOBÁS, Hereditary properties of words, *RAIRO Theoretical Informatics and Applications* Special Issue (Imre Simon), Vol 39, **1** (2005), 49–66.
- [21] J. BALOGH AND B. BOLLOBÁS, Unavoidable traces of set systems, *Combinatorica*, **25** (2005), 633–643.
- [22] J. BALOGH, B. BOLLOBÁS, AND R. MORRIS, Hereditary properties of ordered graphs, Topics in discrete mathematics, 179–213, Algorithms Combin., 26, Springer, Berlin, 2006.
- [23] J. BALOGH AND B. BOLLOBÁS, Bootstrap percolation on the hypercube, *Probability and Related Fields*, **134** (2006), 624–648.
- [24] J. BALOGH, B. BOLLOBÁS, AND R. MORRIS, Hereditary properties of partitions, ordered graphs and ordered hypergraphs, *European J. Combin.*, **27** (2006), 1263–1281.
- [25] J. BALOGH, Y. PERES, AND G. PETE, Bootstrap percolation on infinite trees, *Combin. Probab. Comput.*, **15** (2006), 715–730.
- [26] J. BALOGH, A remark on the number of edge colorings of graphs, *European J. Comp.*, **27** (2006), 565–573.
- [27] J. BALOGH, P. KEEVASH, AND B. SUDAKOV, On the minimal degree implying equality of the largest triangle-free and bipartite subgraphs, *J. Combin. Theory Ser. B*, **96** (2006), 919–932.
- [28] J. BALOGH, D. MUBAYI, AND A. PLUHÁR, On the Edge-Bandwidth of Graph products, *Theoretical Computer Science*, **359** (2006), 43–57.
- [29] J. BALOGH AND G. SALAZAR, On  $k$ -sets, convex quadrilaterals, and the rectilinear crossing number of  $K_n$ , *Discrete Comput. Geom.*, **35** (2006), 671–690.

- [30] J. BALOGH, B. PITTEL, AND G. SALAZAR, Large harmonious sets of non-crossing edges for  $n$  randomly labeled vertices in convex position, *Random Structures and Algorithms*, **30** (2007), 105–130.
- [31] J. BALOGH AND B. PITTEL, Bootstrap percolation on the random regular graphs, *Random Structures and Algorithms*, **30** (2007), 257–286.
- [32] J. BALOGH AND R. PEMANTLE, The Klee-Minty random edge chain moves with linear speed, *Random Structures and Algorithms*, **30** (2007), 464–483.
- [33] M. AXENOVICH AND J. BALOGH, Graphs having small number of sizes on induced  $k$ -subgraphs, *SIAM J. Discrete Math.*, **21** (2007), 264–272.
- [34] J. BALOGH, J. LEANOS, S. PAN, R. B. RICHTER, AND G. SALAZAR, The convex hull of every optimal pseudolinear drawing of  $K_n$  is a triangle, *Australas. J. Combin.*, **38** (2007), 155–162.
- [35] J. BALOGH, B. BOLLOBÁS, AND R. MORRIS, Hereditary properties of tournaments, *Electronic J. of Combinatorics*, **14** (2007), no. 1, Research Paper 60, 25 pp. (electronic).
- [36] J. BALOGH, B. BOLLOBÁS, AND R. MORRIS, Hereditary properties of combinatorial structures: posets and oriented graphs, *J. Graph Theory*, **56** (2007), 311–332.
- [37] J. BALOGH AND C. SMYTH, On the variance of Shannon products of graphs, *Discrete Applied Mathematics Volume*, 156 (2008) 110–118.
- [38] J. BALOGH AND R. MARTIN, Edit distance and its computation, *Electronic J. of Combinatorics*. **15**(1) (2008), Research Paper 20, 27 pp.
- [39] S. KUMAR, T. H. LAI, AND J. BALOGH, On  $k$ -Coverage in a Mostly Sleeping Sensor Network, *Wireless Network*, (2008) Volume 14: 277–294. (also in Proceedings of the Tenth Annual International Conference on Mobile Computing and Networking (ACM MobiCom) 2004, Philadelphia, PA, 2004, pp.144–158.)
- [40] J. BALOGH AND D. MUBAYI, Shifting and non-trivial  $t$ -intersecting families, *J. Comb Theory A.*, **115** (2008), 326–330.
- [41] J. BALOGH, S.G. HARTKE, QI LIU, AND GEXIN YU, First-Fit chromatic number of planar and random graphs, *SIAM J. Discrete Math.* **22**, (2008), 887–900.
- [42] J. BALOGH AND A. KOSTOCHKA, On 2-detour subgraphs of the hypercube, *Graphs and Combinatorics*, **24** (2008), 265–272.
- [43] G. ARAUJO, J. BALOGH, R. FABILA, G. SALAZAR, AND J. URRUTIA, A note on harmonic subgraphs in labelled geometric graphs, *Inform. Process. Lett.* **105** (2008), 98–102.

- [44] B. ABREGO, J. BALOGH, S. FERNANDEZ–MERCHANT, J. LEANOS, AND G. SALAZAR, An extended lower bound on the number of to generalized configurations of points and the pseudolinear crossing number of  $K_n$ , *J. Comb. Theory A.*, **115** (2008), 1257–1264.
- [45] J. BALOGH, S.L. BEZRUKOV, L.H. HARPER, AND Á. SERESS, On the bandwidth of 3-dimensional Hamming graphs, *Theoretical Computer Science*, **407** (2008), 488–495.
- [46] J. BALOGH, B. BOLLOBÁS, M. SAKS, AND V. T. SÓS, On the diversity function of a hereditary graph property, *J. Comb. Theory A.*, **99** (2009), 9–19.
- [47] J. BALOGH, B. BOLLOBÁS, AND R. MORRIS, Majority bootstrap percolation on the hypercube, *Combin. Probab. Comput.*, (2009) **18** 17–51.
- [48] J. BALOGH, R. MARTIN, AND A. PLUHÁR, The diameter game, *Random Structures and Algorithms*, (2009) **35** 369–389.
- [49] J. BALOGH, BOLLOBÁS, AND SIMONOVITS, The typical structure of graphs without given excluded subgraphs, *Random Structures and Algorithms*, (2009) **34** 205–318.
- [50] J. BALOGH, B. BOLLOBÁS, AND R. MORRIS, Bootstrap percolation in three dimensions, *Annals of Probability*, (2009) **37** 1329–1380.
- [51] J. BALOGH, A. KOSTOCHKA, N. PRINCE, AND M. STIEBITZ, The Erdős-Lovász Tihany Conjecture for quasi-line graphs, *Discrete Mathematics*, (2009) **309** 3985–3991.
- [52] N. ALON, J. BALOGH, A. KOSTOCHKA, AND W. SAMOTIJ, Sizes of induced subgraphs of Ramsey graphs, *Combinatorics, Probability and Computing*, (2009) 459–476.
- [53] J. BALOGH AND R. MARTIN, On the Avoider-Enforcer game, *SIAM Journal on Discrete Mathematics*, (2009) **23**, 901–908.
- [54] J. BALOGH AND N. PRINCE, Minimum difference representations of graphs, *Graphs and Combinatorics*, (2009) **25** 647–655.
- [55] J. BALOGH, T. BOHMAN AND D. MUBAYI, Erdős-Ko-Rado in Random Hypergraphs, *Combinatorics, Probability and Computing*, (2009) **18** 629–624.
- [56] J. BALOGH, B. CSABA, M. PEI AND W. SAMOTIJ, Large Bounded Degree Trees in Expanding Graphs, *Electronic Journal of Combinatorics*, (2010) **17** (1), Research Paper 6, 9 pp.
- [57] J. BALOGH AND W. SAMOTIJ, Almost all  $C_4$ -free graphs have less than  $(1 - \varepsilon)\text{ex}(n, C_4)$  edges, *SIAM J. Discrete Mathematics*, (2010) **24**, 1011–1018.

- [58] J. BALOGH AND J. BUTTERFIELD, Online Ramsey Games for Triangles in Random Graphs, *Discrete Mathematics*, (2010) **310** 3653–3657.
- [59] J. BALOGH, B. BOLLOBÁS, AND R. MORRIS, Bootstrap percolation in high dimensions, *Combinatorics, Probability and Computing*, (2010) **19**, 643–692.
- [60] J. BALOGH AND J. BUTTERFIELD, Excluding induced subgraphs: critical graphs, *Random Structures and Algorithms*, (2011) **38**, 100–120.
- [61] J. BALOGH, BOLLOBÁS, AND SIMONOVITS, The fine structure of octahedron-free graphs, *Journal of Combinatorial Theory, Series B.* **101** (2011), 67–84.
- [62] J. BALOGH, B. CSABA AND W. SAMOTIJ, Local resilience of almost spanning trees in random graphs, *Random Structures and Algorithms*, (2011) **38**, 121–139.
- [63] J. BALOGH, B. BOLLOBÁS, M. KRIVELEVICH, T. MUELLER AND M. WALTERS, Hamilton cycles in random geometric graphs, *Annals of Applied Probability*, (2011) **21** 1053–1072.
- [64] N. ALON, J. BALOGH, B. BOLLOBÁS AND R. MORRIS, The structure of almost all graphs in a hereditary property, *Journal of Combinatorial Theory, Series B.* (2011), **101** 85–110.
- [65] J. BALOGH AND W. SAMOTIJ, The number of  $K_{m,m}$ -free graphs, *Combinatorica*, (2011) **31** 131–150.
- [66] J. BALOGH, J. LENZ AND H. WU, Complete Minors, Independent Sets, and Chordal Graphs, *Discussiones Mathematicae Graph Theory*, (2011) **31** (4) 639–674 D.
- [67] J. BALOGH AND W. SAMOTIJ, The number of  $K_{s,t}$ -free graphs, *Journal of the London Mathematical Society*, (2011) **83**, 368–388.
- [68] J. BALOGH AND D. MUBAYI, Almost all triple systems with independent neighborhoods are semi-partite, *Journal of Combinatorial Theory, Series A*, **118**, (2011) 1494–1518.
- [69] J. BALOGH AND A. KOSTOCHKA, Large minors in graphs with a given stability number, *Discrete Mathematics*, (2011) **311**, 2203–2215.
- [70] J. BALOGH, AND W. SAMOTIJ, On the Chvatal-Erdős triangle game, *Electronic J. of Combinatorics*, **18** (2011) Paper 72.
- [71] J. BALOGH AND A. PLUHÁR, The positive minimum degree on game sparse graphs, *Electronic J. of Combinatorics*, Vol 19 (2012) paper 22.
- [72] J. BALOGH, C. LEE AND W. SAMOTIJ, Corrádi and Hajnal’s theorem for sparse random graphs, *Combinatorics, Probability and Computing*, (2012) **21** pp. 23–55.

- [73] J. BALOGH, B. BOLLOBÁS, T. BOHMAN AND Y. ZHAO, Turán densities of some hypergraphs related to  $K_{k+1}^k$ , *SIAM J. Discrete Mathematics* **26** (2012), 1609–1617.
- [74] J. BALOGH, B. BOLLOBÁS, H. DUMINIL-COPIN, AND R. MORRIS, The sharp threshold for bootstrap percolation in all dimensions, *Transactions of the American Mathematical Society*, **364** (2012), 2667–2701.
- [75] J. BALOGH AND D. MUBAYI, Almost all cancellative triple systems are tripartite, *Combinatorica*, **32** (2012), 143–169.
- [76] J. BALOGH, B. BOLLOBÁS, AND R. MORRIS, Graph bootstrap percolation, *Random Structures and Algorithms*, **41** (2012), 413–440.
- [77] J. BALOGH, B. BOLLOBÁS, R. MORRIS AND O. RIORDAN, Linear algebra in bootstrap percolation, *J. Combin. Theory Ser. A*, (2012) **119**, 1328–1335.
- [78] J. BALOGH AND J. LENZ, Some Exact Ramsey-Turán Numbers, *Bulletin of the London Mathematical Society*, **44** (2012), 1251–1258.
- [79] J. BALOGH AND J. LENZ, On Ramsey-Turán numbers of graphs and hypergraphs, *Israel Journal of mathematics*, **194** (2013) 45–68.
- [80] J. BALOGH, A. V. KOSTOCHKA AND A. TREGLOWN, Perfect packings in graphs, *Electronic Journal of Combinatorics*, Volume 20, Issue 1 (2013), paper 57, 15 pages.
- [81] J. BALOGH, H. GONZLEZ-AGUILAR, AND G. SALAZAR, Large convex holes in random point sets, *Computational Geometry: Theory and Applications*, **46** (2013), 725–733.
- [82] J. BALOGH, G. KEMKES, C. LEE, AND S. J. YOUNG, Towards a weighted version of the Hajnal-Szemerédi theorem, *Combin. Probab. Comput.* **22** (2013), 346–350.
- [83] J. BALOGH, A. KOSTOCHKA AND A. RAIGORODSKII, Coloring some finite sets in  $R_n$ , *Discussiones Mathematicae Graph Theory*, **33** (2013) 25–31.
- [84] J. BALOGH, AND C. PALMER, On the tree packing conjecture, *SIAM J. of Discrete Math.* **27** (2013), 1995–2006.
- [85] J. BALOGH, P. HU, B. LIDICKY AND H. LIU, Upper bounds on the size of 4- and 6-cycle-free subgraphs of the hypercube, *European J. of Combinatorics*, **35** (2014), 75–85.
- [86] N. ALON, J. BALOGH, R. MORRIS AND W. SAMOTIJ, Counting sum-free sets in Abelian groups, *Israel Journal of mathematics*, **199** (2014), 309–344.

- [87] J. BALOGH, J. BARÁT, D. GERBNER, A. GYÁRFÁS AND G. SÁRKÖZY, Partitioning edge-2-colored graphs by monochromatic paths and cycles, *Combinatorica*, **34** (2014), 507–526.
- [88] J. BALOGH, R. MORRIS AND W. SAMOTIJ, Random sum-free subsets of Abelian groups, *Israel Journal of Mathematics*, **199** (2014), 651–685.
- [89] N. ALON, J. BALOGH, R. MORRIS AND W. SAMOTIJ, A refinement of the Cameron-Erdős Conjecture, *Proceedings of the London Mathematical Society*, **108** (2014) 44–72.
- [90] J. BALOGH, R. MYCROFT AND A. TREGLOWN, A random version of Sperner’s theorem, *Journal of Combinatorial Theory, Series A*, **128**, (2014), 104–110.
- [91] J. BALOGH AND H. LIU, On the number of  $K_4$ -saturating edges, *Journal of Combinatorial Theory, Series B*. **109** (2014), 250–257.
- [92] J. BALOGH AND S. PETRICKOVA, The number of the maximal triangle-free graphs, *Bull. London Math. Soc.*, **46** (2014) 1003–1006.
- [93] J. BALOGH, S. DAS, M. DELCOURT, HONG LIU, M. SHARIFZADEH, The typical structure of intersecting families of discrete structures, *Journal of Combinatorial Theory, Series A*, **132** (2015), 224–245.
- [94] J. BALOGH, J. BUTTERFIELD, P. HU, J. LENZ AND D. MUBAYI, On the Chromatic Thresholds of Hypergraphs, to appear in *Combin. Probab. Comput.*
- [95] J. BALOGH, J. LEANOS AND G. SALAZAR, On the decay of crossing numbers of sparse graphs, *J. of Graph Theory*, to appear.
- [96] J. BALOGH, J. BUTTERFIELD, P. HU, AND J. LENZ, Mantel’s Theorem for Random Hypergraphs, *Random Structures and Algorithms*, to appear.
- [97] J. BALOGH, P. HU, B. LIDICK, O. PIKHURKO, B. UDVARI, AND J. VOLEC, Minimum number of monotone subsequences of length 4 in permutations, *Combinatorics, Probability and Computing*, to appear.
- [98] J. BALOGH, H. LIU, AND MARYAM SHARIFZADEH, Subdivisions of a large clique in  $C_6$ -free graphs, *Journal of Combinatorial Theory, Series B*., to appear.
- [99] J. BALOGH, R. MORRIS AND W. SAMOTIJ, Independent sets in hypergraphs, *JAMS*, to appear.
- [100] J. BALOGH, R. MORRIS, W. SAMOTIJ AND L. WARNKE, The typical structure of sparse  $K_{r+1}$ -free graphs, *Transactions of AMS*, to appear.

- [101] J. BALOGH, H. LIU, M. SHARIFZADEH, AND A. TREGLOWN, The number of maximal sum-free subsets of integers, *Proceedings of AMS*, to appear.
- [102] J. BALOGH, AND G. SALAZAR, Decompositions of permutations and book embeddings, *SIDMA*.
- [103] J. BALOGH, M. DELCOURT, B. LIDICK, AND C. PALMER, Rainbow copies of  $C_4$  in edge-colored hypercubes, *Discrete Applied Mathematics*, to appear.
- [104] J. BALOGH AND J. LENZ, Hypergraphs with Zero Chromatic Threshold, submitted.
- [105] J. BALOGH, P. HU, AND M. SIMONOVITS, Phase transitions in the Ramsey-Turán theory, submitted.
- [106] J. BALOGH, H. LIU, M. SHARIFZADEH, AND A. TREGLOWN, Sharp bound on the number of maximal sum-free subsets of integers
- [107] J. BALOGH, H. LIU, S. PETRICKOVA, AND M. SHARIFZADEH, The typical structure of maximal triangle-free graphs.
- [108] J. BALOGH, A. LO, AND T. MOLLA, Transitive Triangle Tilings in Oriented Graphs, submitted.
- [109] J. BALOGH, P. HU, B. LIDICKY, F. PFENDER, J. VOLEC, AND M. YOUNG, Rainbow triangles in three-colored graphs, submitted.
- [110] J. BALOGH, B. CSABA, R. MARTIN, AND A. PLUHÁR, On the path separation number of graphs, submitted.
- [111] J. BALOGH, P. HU, B. LIDICKY, AND F. PFENDER, Maximum density of induced 5-cycle is achieved by an iterated blow-up of 5-cycle, submitted.
- [112] J. BALOGH, N. BUSHAW, M. COLLARES NETO, H. LIU, R. MORRIS AND M. SHARIFZADEH, The typical structure of graphs with no large cliques, submitted.
- [113] J. BALOGH, B. BOLLOBÁS, AND B. P. NARAYANAN, Transference for the Erdős-Ko-Rado theorem, submitted.