

Affiliation

Professor, Department of Mathematics, UCLA, Los Angeles, CA 90095.
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Research interests

Algebraic and Probabilistic Methods in Combinatorics, Graph Theory, Extremal Combinatorics, Ramsey Theory, Random Structures, Applications of Combinatorics to Theory of Computer Science.

Education

1995-1999 : Ph. D. in Mathematics (with distinction), Tel Aviv University, Tel Aviv, Israel.
Adviser: Noga Alon.
1991-1993: M. Sc. in Mathematics (summa cum laude), Tel Aviv University, Tel Aviv, Israel.
1990: B. Sc. in Mathematics (summa cum laude), Georgian State University, Tbilisi, USSR.

Honors and Awards

2010: Invited speaker, Combinatorics section, International Congress (ICM), Hyderabad, India.
2007-2011: David Saxon Presidential Term Chair in Mathematics, UCLA, USA.
2006-2011: NSF CAREER award.
2004-2006: Alfred P. Sloan Fellowship, USA.
1999: Rothschild Postdoctoral Fellowship, Israel.
1998, 1999: Distinguished teaching award from Faculty of Engineering, Tel Aviv University, Israel.
1998: Wolf Foundation Fellowship for Excellence in Ph.D. studies, Israel.
1984 - 86: Prizes in the Mathematics Youth Olympics of the Soviet Union.

Grants

2011-2014: National Science Foundation grant DMS 1101185.
2009-2013: USA-Israel Binational Science Foundation grant 2008071 (co-PI).
2006-2011: National Science Foundation Career grant DMS 0546523.
2005-2009: USA-Israel Binational Science Foundation grant 2004029 (co-PI).
2004-2007: National Science Foundation grant DMS 0355497.
2001-2004: National Science Foundation grant DMS 0106589.

Academic and Professional Experience

2007- : Professor, Department of Mathematics, UCLA, Los Angeles, USA.
2002-2007: Assistant Professor, Department of Mathematics, Princeton University, USA.
2005-2006: Member, Institute for Advanced Study, Princeton, USA.

2003 (Spring): Member, Institute for Advanced Study, Princeton, USA.

1999-2002 : Veblen Instructor, Department of Mathematics, Princeton University and Institute for Advanced Study, Princeton, USA.

Ph. D Students

Peter Keevash, Princeton University, 2004.

Boris Bukh, Princeton University, 2009.

Po-Shen Loh, Princeton University, 2010.

Jacob Fox, Princeton University, 2010.

Choongbum Lee, UCLA, 2012.

Hao Huang, UCLA, 2012.

Shagnik Das, UCLA, in progress.

Humberto Naves, UCLA, in progress.

Other Professional Activities

EDITORIAL BOARD: Advances in Mathematics (since 2011)
Combinatorica (since 2010)
SIAM Journal on Discrete Mathematics (since 2003)
Journal of Graph Theory (since 2004)
Journal of Combinatorics (since 2010)
Mathematical Surveys and Monographs series of AMS (2008-2012)
University Lecture Series of American Mathematical Society (2010-2012)
Moscow Journal of Combinatorics and Number Theory (since 2010)

GUEST EDITOR: Special issue on Extremal and Probabilistic Combinatorics of
European J. of Combinatorics.

PROGRAM COMMITTEES: 13th Annual ACM-SIAM Symposium on Discrete Algorithms.

ORGANIZATIONAL WORK:

Workshop on New Trends and Directions in Combinatorics, Banff Center, Canada, 2012.

Workshop on Discrete Mathematics: Methods, Challenges and Applications, Eilat, Israel, 2012.

Workshop on Hypergraph Turán problem, American Institute of Mathematics (AIM), Palo Alto, California, 2011.

Workshop on Combinatorics, Obervolfach, Germany, 2011.

Session on Extremal and Probabilistic Combinatorics, AMS Meeting #1063, UCLA, 2010.

Semester on Combinatorics: Methods and Applications in Mathematics and Computer Science, Institute for Pure and Applied Mathematics (IPAM), UCLA, September - December 2009.

Workshop on Probabilistic and Extremal Combinatorics, Banff Center, Canada, 2009.

Workshop on Properties of Large Graphs: From Combinatorics to Statistical Physics and Back, DIMACS Center, Rutgers University, 2006.

Workshop on Probabilistic Combinatorics, Banff Research Center, Canada, 2005.

Session on Extremal and Probabilistic Combinatorics, AMS Meeting #1009, Annandale-on-Hudson, NY, 2005.

Mini-symposium on Probabilistic Combinatorics at SIAM Discrete Math. conferences in: San Diego 2002, Nashville 2004, Victoria 2006.

REFeree OF GRANT PROPOSALS: National Security Agency - member of advisory panel in Discrete Mathematics, NSF - member of the panel in Combinatorics, USA-Israel Binational Science Foundation, Israel Science Foundation.

Recent Talks at Seminars and Conferences

2011

Applied Mathematics Colloquium, MIT, Boston, USA

KAM Mathematical Colloquium, Charles University, Prague, Czech Republic.

Computer Science Colloquium, Tel Aviv University, Tel Aviv, Israel.

Mathematical Colloquium, Freie University, Berlin, Germany.

Theory Colloquium, Microsoft Research New England, Boston, USA.

Combinatorics Seminar, Tel Aviv University, Tel Aviv, Israel.

Theory of Computation Seminar, Tel Aviv University, Tel Aviv, Israel.

Computer Science–Discrete Mathematics Seminar, Institute for Advanced Study, Princeton.

Discrete Mathematics Seminar, Rutgers University, New Brunswick, USA

Discrete Mathematics Seminar, Princeton University, USA

Combinatorics Seminar, Hebrew University, Jerusalem, Israel.

Microsoft Research Theory Group Seminar, Redmond, USA.

Paul Turán Memorial Conference, Budapest, Hungary.

2010

Colloquium, Technion, Haifa, Israel

Colloquium, Bar Ilan University, Tel Aviv, Israel

Colloquium, UCSD, La Jolla, California, USA.

Combinatorics Seminar, Tel Aviv University, Tel Aviv, Israel.

Computing+Mathematical Sciences Lecture Series talk, Caltech, Pasadena, USA.

Combinatorics seminar, MIT, Boston, USA

Computer Science–Discrete Mathematics Seminar, Institute for Advanced Study, Princeton.

Theory Group Seminar, Microsoft Research, Redmond, USA.

Combinatorics Seminar, Hebrew University, Jerusalem, Israel.

Mittagsseminar, Institute of Theoretical Computer Science, ETH, Zurich, Switzerland.
Combinatorics seminar, Cambridge University, England.
Combinatorics seminar, Queen Mary, University of London, England.
Combinatorics session, Israel Mathematical Union annual meeting, Weizmann Institute, Israel.
One-Day Meeting in Combinatorics, University of Oxford, England.
Atlanta Lecture Series in Combinatorics and Graph Theory, Emory University, Atlanta, USA.
Combinatorics section, International Congress of Mathematicians (ICM), Hyderabad, India.

2009

Colloquium, Tel Aviv University, Tel Aviv, Israel.
Colloquium, Emory University, Atlanta, USA
Claremont Colleges Mathematics Colloquia, Claremont, USA.
Combinatorics Seminar, Technion and Haifa University (joint), Haifa, Israel.
Combinatorics Seminar, Tel Aviv University, Tel Aviv, Israel.
Combinatorics Seminar, Georgia Tech, Atlanta, USA
Mittagsseminar, Institute of Theoretical Computer Science, ETH, Zurich, Switzerland.
Combinatorics Seminar, Hebrew University, Jerusalem, Israel.
Jubilee Conference on Discrete Mathematics, Center for Mathematical Sciences, Banasthali University, India
Workshop on Combinatorics and Probability, Mathematical Institute, Oberwolfach, Germany.
Workshop on Combinatorics, Randomization, Algorithms and Probability, Centre de recherches mathematiques, Montreal, Canada.
22nd Cumberland Conference on Combinatorics, Graph Theory, and Computing Western Kentucky University, Bowling Green, USA
The 14th International Conference on Random Structures and Algorithms, Poznan, Poland.

List of Publications

1. N. Alon and B. Sudakov, Disjoint Systems, *Random Structures and Algorithms* 6 (1995), 13-20. A preliminary version appeared in: *Lecture Notes in Computer Science* 781, Springer Verlag (1994), 159–163.
2. B. Sudakov, A note on τ -critical linear hypergraphs, *Graph and Combinatorics* 13 (1997), 281–285.
3. N. Alon, M. Krivelevich and B. Sudakov, Subgraphs with large cochromatic number, *J. Graph Theory* 25 (1997), 295–297.
4. G. Gutin, B. Sudakov and A. Yeo, Note on alternating directed cycles, *Discrete Mathematics* 191 (1998), 101–107.
5. M. Krivelevich and B. Sudakov, The chromatic numbers of random hypergraphs, *Random Structures and Algorithms* 12 (1998), 381–403.
6. M. Krivelevich and B. Sudakov, Coloring random graphs, *Information Processing Letters* 67 (1998), 71–74.
7. N. Alon, M. Krivelevich and B. Sudakov, Finding a large hidden clique in a random graph, *Random Structures and Algorithms* 13 (1998), 457–466. A preliminary version appeared in: *Proc. of the 9th Annual ACM-SIAM SODA*, ACM Press (1998), 594–598.
8. N. Alon, M. Krivelevich and B. Sudakov, Coloring graphs with sparse neighborhoods, *J. Combinatorial Theory Ser. B* 77 (1999), 73–82.
9. N. Alon and B. Sudakov, On two segmentation problems, *J. of Algorithms* 33 (1999), 173–184.
10. N. Alon, M. Krivelevich and B. Sudakov, List coloring of random and pseudo-random graphs, *Combinatorica* 19 (1999), 453–472.
11. N. Alon and B. Sudakov, Bipartite subgraphs and the smallest eigenvalue, *Combinatorics, Probability and Computing* 9 (2000), 1–12.
12. B. Sudakov, Nowhere-zero flows in random graphs, *J. Combinatorial Theory Ser. B* 81 (2001), 209–223.
13. N. Alon, B. Sudakov and A. Zaks, Acyclic edge colorings of graphs, *J. Graph Theory* 37 (2001), 157–167.
14. M. Krivelevich, B. Sudakov, V. Vu and N. Wormald, Random regular graphs of high degree, *Random Structures and Algorithms* 18 (2001), 346–363.
15. A. Kelmans, D. Mubayi and B. Sudakov, Asymptotically optimal tree-packings in regular graphs, *The Electronic J. of Combinatorics* 8 (2001), R 38.
16. M. Krivelevich, R. Nathaniel and B. Sudakov, Approximating coloring and maximum independent set in 3-uniform hypergraphs, *J. of Algorithms* 41 (2001), 99–113. A preliminary version appeared in: *Proc. of the 12th Annual ACM-SIAM SODA*, ACM Press (2001), 327–328.

17. B. Sudakov, A note on odd cycle-complete graph Ramsey numbers, *The Electronic J. of Combinatorics* 9 (2002), N 1.
18. N. Alon, B. Sudakov and U. Zwick, Constructing worst case instances for semidefinite programming based approximation algorithms, *SIAM J. of Discrete Math.* 15 (2002), 58–72. A preliminary version appeared in: *Proc. of the 12th Annual ACM-SIAM SODA*, ACM Press (2001), 92–100.
19. V. Grolmusz and B. Sudakov, On k -wise set-intersections and k -wise hamming-distances, *J. Combinatorial Theory Ser. A* 99 (2002), 180–190.
20. B. Reed and B. Sudakov, List colouring of graphs with at most $(2 - o(1))\chi$ vertices, *Proceedings of the International Congress of Mathematicians*, Vol III (Beijing 2002), Higher Education Press, China, 587–603.
21. B. Reed and B. Sudakov, Asymptotically list coloring constants are 1, *J. Combinatorial Theory Ser. B* 86 (2002), 27–37.
22. J.H. Kim, B. Sudakov and V. Vu, On the asymmetry of random graphs and random regular graphs, *Random Structures and Algorithms* 21 (2002), 216–224.
23. M. Krivelevich, B. Sudakov and V. Vu, A sharp threshold for network reliability, *Combinatorics, Probability and Computing* 11 (2002), 465–474.
24. M. Krivelevich and B. Sudakov, Sparse pseudo-random graphs are Hamiltonian, *J. Graph Theory* 42 (2003), 17–33.
25. M. Krivelevich and B. Sudakov The largest eigenvalue of sparse random graphs, *Combinatorics, Probability and Computing* 12 (2003), 61–72.
26. M. Krivelevich, B. Sudakov, V. Vu and N. Wormald, On the probability of independent sets in random graphs, *Random Structures and Algorithms* 22 (2003), 1–14.
27. P. Keevash and B. Sudakov, Local density in graphs with forbidden subgraphs, *Combinatorics, Probability and Computing* 12 (2003), 139–153.
28. B. Sudakov, Few remarks on the Ramsey-Turán-type problems, *J. Combinatorial Theory Ser. B* 88 (2003), 99–106.
29. N. Alon, B. Bollobás, M. Krivelevich and B. Sudakov, Maximum cuts and judicious partitions in graphs without short cycles, *J. Combinatorial Theory Ser. B* 88 (2003), 329–346.
30. M. Krivelevich and B. Sudakov, Approximate coloring of uniform hypergraphs, *J. of Algorithms* 49 (2003), 2–12. Another version of this paper with additional results appeared in: *Proc. of the 6th Annual European Symposium on Algorithms (ESA '98)*, Lecture Notes in Computer Science 1461, Springer Verlag (1998), 477–489.
31. N. Alon, M. Krivelevich and B. Sudakov, Induced subgraphs of prescribed size, *J. Graph Theory* 43 (2003), 239–251.

32. M. Krivelevich, B. Sudakov and V. Vu, Covering codes with improved density, *IEEE Transactions on Information Theory* 49 (2003), 1812–1815.
33. N. Alon, M. Krivelevich and B. Sudakov, Turán numbers of bipartite graphs and related Ramsey-type questions, *Combinatorics, Probability and Computing* 12 (2003), 477–494.
34. A. Kostochka and B. Sudakov, On Ramsey numbers of sparse graphs, *Combinatorics, Probability and Computing* 12 (2003), 627–641.
35. A. Soshnikov and B. Sudakov, On the largest eigenvalue of a random subgraph of the hypercube, *Communications in Mathematical Physics* 239 (2003), 53–63.
36. P. Keevash and B. Sudakov, On the number of edges not covered by monochromatic copies of a fixed graph, *J. Combinatorial Theory Ser. B* 90 (2004), 41–53.
37. Z. Füredi and B. Sudakov, Extremal set-systems with restricted k -wise intersections, *J. Combinatorial Theory Ser. A* 105 (2004), 143–159.
38. P. Keevash, M. Saks, B. Sudakov and J. Verstraëte, Multicolour Turán problems, *Advances in Applied Mathematics* 33 (2004), 238–262.
39. N. Alon, R. Beigel, S. Kasif, S. Rudich and B. Sudakov, Learning a Hidden Matching, *SIAM J. on Computing* 33 (2004), 487–501. A preliminary version appeared in: *Proc. of the 43rd IEEE FOCS* (2002), 197–206.
40. B. Bollobás, D. Gamarnik, O. Riordan and B. Sudakov, On the value of a random minimum length Steiner tree, *Combinatorica* 24 (2004), 187–207.
41. P. Keevash and B. Sudakov, Packing triangles in a graph and its complement, *J. Graph Theory* 47 (2004), 203–216.
42. M. Krivelevich, B. Sudakov and T. Szabó, Triangle factors in pseudo-random graphs, *Combinatorica* 24 (2004), 403–426.
43. B. Bollobás, P. Keevash and B. Sudakov, Multicoloured extremal problems, *J. Combinatorial Theory Ser. A* 107 (2004), 295–312.
44. N. Alon, J. Balogh, P. Keevash and B. Sudakov, The number of edge colorings with no monochromatic cliques, *J. London Math. Society* 70 (2004), 273–288.
45. N. Alon, I. Dinur, E. Friedgut and B. Sudakov, Graph products, fourier analysis and spectral techniques, *Geometric and Functional Analysis* 14 (2004), 913–940.
46. B. Sudakov, A new lower bound for a Ramsey-type problem, *Combinatorica* 25 (2005), 487–498.
47. P. Keevash and B. Sudakov, Set systems with restricted cross-intersections and the minimum rank of inclusion matrices, *SIAM J. of Discrete Math.* 18 (2005), 713–727.
48. B. Sudakov, T. Szabó and V. Vu, A generalization of Turán’s theorem, *J. Graph Theory* 49 (2005), 187–195.

49. J. Balogh, P. Keevash and B. Sudakov, Disjoint representability of sets and their complements, *J. Combinatorial Theory Ser. B* 95 (2005), 12–28.
50. B. Reed and B. Sudakov, List coloring when the chromatic number is close to the order of the graph, *Combinatorica* 25 (2005), 117–123.
51. B. Sudakov, Large K_r -free subgraphs in K_s -free graphs and some other Ramsey-type problems, *Random Structures and Algorithms* 26 (2005), 253–265.
52. N. Alon, M. Krivelevich and B. Sudakov, MaxCut in H -free graphs, *Combinatorics, Probability and Computing* 14 (2005), 629–647.
53. P. Keevash and B. Sudakov, The Turán number of the Fano plane, *Combinatorica* 25 (2005), 561–574.
54. A. Frieze, M. Krivelevich and B. Sudakov, The strong chromatic index of random graphs, *SIAM J. of Discrete Math.* 19 (2005), 719–727.
55. P. Keevash and B. Sudakov, On a hypergraph Turán problem of Frankl, *Combinatorica* 25 (2005), 673–706.
56. B. Sudakov, E. Szemerédi and V. Vu, On a question of Erdős and Moser, *Duke Math. J.* 129 (2005), 129–155.
57. N. Alon and B. Sudakov, H -free graphs of large minimum degree, *Electronic J. of Combinatorics* 13 (2006), R19.
58. P. Keevash, P. Loh and B. Sudakov, Bounding the number of edges in permutation graphs, *Electronic J. of Combinatorics* 13 (2006), R44.
59. P. Keevash and B. Sudakov, Sparse halves in triangle-free graphs, *J. Combinatorial Theory Ser. B* 96 (2006), 614–620.
60. M. Krivelevich and B. Sudakov, Pseudo-random graphs, in: *More Sets, Graphs and Numbers*, Bolyai Society Mathematical Studies 15, Springer, 2006, 199–262.
61. M. Krivelevich, B. Sudakov and P. Tetali, On smoothed analysis in dense graphs and formulas, *Random Structures and Algorithms* 29 (2006), 180–193.
62. P. Keevash and B. Sudakov, On a restricted cross-intersection problem, *J. Combinatorial Theory Ser. A* 113 (2006), 1536–1542.
63. N. Alon, R. Radoičić, B. Sudakov and J. Vondrák, A Ramsey-type result for the hypercube, *J. Graph Theory* 53 (2006), 196–208.
64. J. Balogh, P. Keevash and B. Sudakov, On the minimal degree implying equality of the largest triangle-free and bipartite subgraphs, *J. Combinatorial Theory Ser. B* 96 (2006), 919–932.
65. E. Mossel, R. O’Donnell, O. Regev, J. Steif and B. Sudakov, Non-Interactive Correlation Distillation, Inhomogeneous Markov Chains and the Reverse Bonami-Beckner Inequality, *Israel J. Math.* 154 (2006), 299–336.

66. P. Keevash, D. Mubayi, B. Sudakov and J. Verstraëte, Rainbow Turán Problems, *Combinatorics, Probability and Computing* 16 (2007), 109–126.
67. J.H. Kim, B. Sudakov and V. Vu, Small subgraphs of random regular graphs, *Discrete Mathematics* 307 (2007), 1961–1967.
68. B. Bukh and B. Sudakov, Induced subgraphs of Ramsey graphs with many distinct degrees, *J. Combinatorial Theory Ser. B* 97 (2007), 612–619.
69. N. Alon and B. Sudakov, On graphs with subgraphs of large independence numbers, *J. Graph Theory* 56 (2007), 149–157.
70. P. Loh and B. Sudakov, Independent transversals in locally sparse graphs, *J. Combinatorial Theory Ser. B* 97 (2007), 904–918.
71. B. Sudakov, Making a K_4 -free graph bipartite, *Combinatorica* 27 (2007), 509–518.
72. B. Sudakov, Ramsey numbers and the size of graphs, *SIAM J. of Discrete Math.* 21 (2007), 980–986.
73. N. Alon, M. Krivelevich and B. Sudakov, Embedding nearly-spanning bounded degree trees, *Combinatorica* 27 (2007), 629–644.
74. T. Bohman, A. Frieze and B. Sudakov, The game chromatic number of random graphs, *Random Structures and Algorithms* 32 (2008), 223–235.
75. P. Loh and B. Sudakov, On the strong chromatic number of random graphs, *Combinatorics, Probability and Computing* 17 (2008), 271–286.
76. J. Fox and B. Sudakov, On a problem of Duke-Erdős-Rödl on cycle-connected subgraphs, *J. Combinatorial Theory Ser. B* 98 (2008), 1056–1062.
77. N. Alon, M. Krivelevich and B. Sudakov, Large nearly regular induced subgraphs, *SIAM J. of Discrete Math.* 22 (2008), 1325–1337.
78. B. Sudakov and J. Vondrák, How many random edges make a dense hypergraph non-2-colorable?, *Random Structures and Algorithms* 32 (2008), 290–306.
79. J. Fox and B. Sudakov, Unavoidable patterns, *J. Combinatorial Theory Ser. A* 115 (2008), 1561–1569.
80. B. Sudakov and J. Verstraëte, Cycle lengths in sparse graphs, *Combinatorica* 28 (2008), 357–372.
81. J. Fox and B. Sudakov, Ramsey-type problem for an almost monochromatic K_4 , *SIAM J. of Discrete Math.* 23 (2008), 155–162.
82. B. Sudakov and V. Vu, Resilience of graphs, *Random Structures and Algorithms* 33 (2008), 409–433.

83. J. Fox and B. Sudakov, Induced Ramsey-type theorems, *Advances in Mathematics* 219 (2008), 1771–1800.
84. M. Krivelevich, P. Loh and B. Sudakov, Avoiding small subgraphs in Achlioptas processes, *Random Structures and Algorithms* 34 (2009), 165–195.
85. J. Fox, P. Loh and B. Sudakov, Large induced trees in K_r -free graphs, *J. Combinatorial Theory Ser. B* 99 (2009), 494–501.
86. P. Loh and B. Sudakov, Constrained Ramsey Numbers, *Combinatorics, Probability and Computing* 18 (2009), 247–258.
87. P. Keevash and B. Sudakov, Triangle packings and 1-factors in oriented graphs, *J. Combinatorial Theory Ser. B* 99 (2009), 709–727.
88. J. Fox and B. Sudakov, Paths and stability number in digraphs, *Electronic J. of Combinatorics* 16(1) (2009), N23.
89. D. Conlon, J. Fox and B. Sudakov, Ramsey numbers of sparse hypergraphs, *Random Structures and Algorithms* 35 (2009), 1–14.
90. M. Krivelevich, B. Sudakov and D. Vilenchik, On the random satisfiable process, *Combinatorics, Probability and Computing* 18 (2009), 775–801.
91. J. Fox and B. Sudakov, Two remarks on the Burr-Erdős conjecture, *European J. Combinatorics* 30 (2009), 1630–1645.
92. N. Alon, B. Bukh and B. Sudakov, Discrete Kakeya-type problems and small bases, *Israel J. Math.* 174 (2009), 285–301.
93. M. Krivelevich and B. Sudakov, Minors in expanding graphs, *Geometric and Functional Analysis* 19 (2009), 294–331.
94. J. Fox and B. Sudakov, Density theorems for bipartite graphs and related Ramsey-type results, *Combinatorica* 29 (2009), 153–196.
95. N. Alon, A. Shapira and B. Sudakov, Additive approximation for edge-deletion problems, *Annals of Mathematics* 170 (2009), 371–411. A preliminary version appeared in: *Proc. of the 46th IEEE FOCS* (2005), 419–428.
96. J. Fox, P. Keevash and B. Sudakov, Directed graphs without short cycles, *Combinatorics, Probability and Computing* 19 (2010), 285–301.
97. M. Krivelevich, C. Lee and B. Sudakov, Resilient pancyclicity of random and pseudo-random graphs, *SIAM J. of Discrete Math.* 24 (2010), 1–16.
98. P. Keevash and B. Sudakov, Pancyclicity of Hamiltonian and highly connected graphs, *J. Combinatorial Theory Ser. B* 100 (2010), 456–467.
99. J. Fox and B. Sudakov, Decompositions into subgraphs of small diameter, *Combinatorics, Probability and Computing* 19 (2010), 753–774.

100. M. Krivelevich, E. Lubetzky and B. Sudakov, Hamiltonicity thresholds in Achlioptas processes, *Random Structures and Algorithms* 37 (2010), 1–24.
101. B. Sudakov and J. Vondrák, Nearly optimal embedding of trees, *Combinatorica* 30 (2010), 445–470.
102. B. Barak, G. Kindler, R. Shaltiel, B. Sudakov and A. Wigderson, Simulating Independence: New Constructions of Condensers, Ramsey Graphs, Dispersers and Extractors, *Journal of the ACM* 57 (2010), Article No. 20. A preliminary version appeared in: *Proc. of the 37th ACM STOC* (2005), 1–10.
103. P. Loh, O. Pikhurko and B. Sudakov, Maximizing the number of q -colorings, *Proc. London Math. Soc.* 101 (2010), 655–696.
104. N. Alon and B. Sudakov, Increasing the chromatic number of a random graph, *Journal of Combinatorics* 1 (2010), 345–356.
105. D. Conlon, J. Fox and B. Sudakov, Hypergraph Ramsey numbers, *J. Amer. Math. Soc.* 23 (2010), 247–266.
106. B. Sudakov, Recent developments in extremal combinatorics: Ramsey and Turán type problems, *Proc. International Congress of Mathematicians*, Hyderabad, India, 2010, Vol 4, 2579–2606.
107. D. Conlon, J. Fox and B. Sudakov, An approximate version of Sidorenko’s conjecture, *Geometric and Functional Analysis* 20 (2010), 1354–1366.
108. T. Bohman, A. Frieze, M. Krivelevich, P. Loh and B. Sudakov, Ramsey games with giants, *Random Structures and Algorithms* 38 (2011), 1–32.
109. S. Ben-Shimon, M. Krivelevich and B. Sudakov, Local resilience and Hamiltonicity Maker-Breaker games in random regular graph, *Combinatorics, Probability and Computing* 20 (2011), 173–211.
110. J. Fox and B. Sudakov, Dependent random choice, *Random Structures and Algorithms* 38 (2011), 68–99.
111. B. Sudakov and J. Verstraëte, Cycles in graphs with large independence ratio, *Journal of Combinatorics* 2 (2011), 82–102.
112. D. Conlon, J. Fox and B. Sudakov, Large almost monochromatic subsets in hypergraphs, *Israel J. Math.* 181 (2011), 423–432.
113. A. Scott and B. Sudakov, A new bound for the cops and robbers problem, *SIAM J. of Discrete Math* 25 (2011), 1438–1442.
114. M. Krivelevich, B. Sudakov and N. Wormald, Regular induced subgraphs of a random graph, *Random Structures and Algorithms* 38 (2011), 235–250.

115. D. Ellis and B. Sudakov, Generating all subsets of a finite set with disjoint unions, *J. Combinatorial Theory Ser. A* 118 (2011), 2319–2345.
116. S. Ben-Shimon, M. Krivelevich and B. Sudakov, On the resilience of Hamiltonicity and optimal packing of Hamilton cycles in random graphs, *SIAM J. of Discrete Math* 25 (2011), 1176–1193.
117. B. Sudakov, A conjecture of Erdős on graph Ramsey numbers, *Advances in Mathematics* 227 (2011), 601–609.
118. E. Lubetzky, B. Sudakov and V. Vu, Spectra of lifted Ramanujan graphs, *Advances in Mathematics* 227 (2011), 1612–1645.
119. H. Huang, C. Lee and B. Sudakov, Bandwidth theorem for sparse graphs, *J. Combinatorial Theory Ser. B* 102 (2012), 14–37.
120. C. Lee and B. Sudakov, Hamiltonicity, independence number, and pancyclicity, *European Journal of Combinatorics* 33 (2012), 449–457.
121. N. Alon, H. Huang and B. Sudakov, Nonnegative k -sums, fractional covers, and probability of small deviations, *J. Combinatorial Theory Ser. B* 102 (2012), 784–796.
122. I. Ben-Eliezer, M. Krivelevich and B. Sudakov, Biased orientation games, *Discrete Mathematics* 312 (2012), 1732–1742.
123. N. Alon, P. Frankl, H. Huang, V. Rodl, A. Rucinski and B. Sudakov, Large matchings in uniform hypergraphs and the conjectures of Erdős and Samuels, *J. Combinatorial Theory Ser. A* 119 (2012), 1200–1215.
124. I. Ben-Eliezer, M. Krivelevich and B. Sudakov, The size Ramsey number of a directed path, *J. Combinatorial Theory Ser. B* 102 (2012), 743–755.
125. H. Huang, P. Loh and B. Sudakov, The size of a hypergraph and its matching number, *Combinatorics, Probability and Computing* 21 (2012), 442–450.

Accepted for publication

126. D. Conlon, J. Fox and B. Sudakov, An improved bound for the stepping-up lemma, *Discrete Applied Math.*, to appear.
127. I. Ben-Eliezer, M. Krivelevich and B. Sudakov, Long cycles in subgraphs of (pseudo)random directed graphs, *J Graph Theory*, to appear.
128. D. Conlon, J. Fox and B. Sudakov, On two problems in graph Ramsey theory, *Combinatorica*, to appear.
129. J. Fox, C. Lee and B. Sudakov, Maximum union-free subfamilies, *Israel Journal of Mathematics*, to appear.
130. H. Huang and B. Sudakov, A counterexample to the Alon-Saks-Seymour conjecture and related problems, *Combinatorica*, to appear.

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137. P. Keevash, B. Sudakov and J. Verstraete, On a conjecture of Erdős and Simonovits: Even cycles, *Combinatorica*, to appear.
138. D. Conlon, J. Fox and B. Sudakov, Erdős-Hajnal-type theorems in hypergraphs, *J. Combinatorial Theory Ser. B*, to appear.

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139. Y. Peres, D. Sotnikov, B. Sudakov and U. Zwick, All-Pairs shortest paths in $O(n^2)$ time with high probability, submitted. A preliminary version appeared in: *Proc. of the 51st IEEE FOCS (2010)*, 663–672.
140. C. Lee, P. Loh and B. Sudakov, Bisections of graphs, submitted.
141. D. Conlon, J. Fox and B. Sudakov, Two extensions of Ramsey's theorem, submitted.
142. C. Lee, P. Loh and B. Sudakov, Self-similarity of graphs, submitted.
143. M. Krivelevich, C. Lee and B. Sudakov, Robust Hamiltonicity of Dirac graphs, submitted.
144. M. Krivelevich and B. Sudakov, The phase transition in random graphs – a simple proof, submitted.
145. H. Huang, J. Ma, A. Shapira, B. Sudakov and R. Yuster, Large feedback arc sets, high minimum degree subgraphs, and long cycles in Eulerian digraphs, submitted.
146. S. Das, C. Lee and B. Sudakov, Rainbow Turan Problem for Even Cycles, submitted.
147. S. Das, H. Huang, J. Ma, H. Naves and B. Sudakov, A problem of Erdős on the minimum number of k -cliques, submitted.