

Affiliation

Professor, Department of Mathematics, ETH, Zurich, 8092, Switzerland.
E-mail: benjamin.sudakov@math.ethz.ch.

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 (distinction), Tel Aviv University, 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

2014: Humboldt Research Award, Germany.
2013: Fellow of the American Mathematical Society.
2012 (Spring): Leverhulme Visiting Professor, Cambridge University and Fellow of Trinity College.
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.
1984 - 86: Prizes in the Mathematics Youth Olympics of the Soviet Union.

Grants

2013-2016: Swiss National Science Foundation grant.
2001-2004, 2004-2007, 2006-2011, 2011-2014: USA National Science Foundation grants.
2005-2009, 2009-2013: USA-Israel Binational Science Foundation grants.

Academic and Professional Experience

2013- : Professor, Department of Mathematics, ETH, Zurich, Switzerland.
2007-2014 : 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

Princeton University: Peter Keevash, (2004), Boris Bukh (2009), Po-Shen Loh (2010), Jacob Fox (2010).

UCLA: Choongbum Lee (2012), Hao Huang (2012), Shagnik Das (2014), Humberto Naves (2014), Wenying Gan (2014).

ETH: Daniel Korandi, Pedro Vieira, Nina Kamčev, Matthew Kwan - in progress.

Other Professional Activities

COMMITTEES:

Member of the Combinatorics Section Panel of the Program Committee, ICM Seoul, 2014.

Chair of David P. Robbins Prize Committee, AMS, 2013.

Scientific Advisory Board, Banff International Research Station, Canada. (since 2013)

Program Committee of European Conference on Combinatorics, Graph Theory and Application (EuroComb) 2013, 2011 and 2009.

Program Committee of 13th Annual ACM-SIAM Symposium on Discrete Algorithms, 2002.

EDITORIAL BOARD: Advances in Mathematics (since 2011)

Annals of Combinatorics (since 2014)

Combinatorica (since 2010)

Electronic Journal of Combinatorics (since 2013)

Int. Math. Res. Not. (IMRN) (since 2014)

Journal of American Mathematical Society (JAMS), (since 2016)

Journal of Graph Theory (since 2004)

Journal of Combinatorics (since 2010)

Mathematical Surveys and Monographs series of AMS (2008-2020)

Moscow Journal of Combinatorics and Number Theory (since 2010)

Mathematical Proceedings of the Cambridge Philosophical Society (since 2013)

Research in the Mathematical Sciences (RIMS), (since 2014)

SIAM Journal on Discrete Mathematics (since 2003)

University Lecture Series of American Mathematical Society (2010-2012)

ORGANIZATIONAL WORK:

Thematic Year on Discrete Structures: Analysis and Applications, Institute for Mathematics and its Applications (IMA), Minnesota, September 2014-June 2015.

Workshop on Probabilistic and Extremal Combinatorics, IMA, Minnesota, 2014.

Workshop on Extremal and Probabilistic Combinatorics, Clay Math. Inst., Oxford, 2014.

Workshop on Extremal and Probabilistic Combinatorics, UCLA, Los Angeles, 2013.

Workshop on Combinatorics, Obervolfach, Germany, 2014, 2011.

Workshop on Combinatorics, Banff Center, Canada, 2015, 2012, 2009, 2005.

Workshop on Discrete Mathematics, Eilat, Israel, 2012.

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

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

Session on Extremal and Probabilistic Combinatorics, AMS Meeting #1063, UCLA, 2010 and AMS Meeting #1009, Annandale-on-Hudson, NY, 2005.

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

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

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, ERC grants.

Recent Talks at Seminars and Conferences

2015

Combinatorics Seminar, Tel Aviv University, Israel.

Combinatorics Seminar, Hebrew University, Jerusalem, Israel.

Combinatorics Seminar, Freie University, Berlin, Germany.

Combinatorics Seminar, London School of Economics, UK.

Combinatorics Seminar, Oxford University, UK.

Combinatorics Seminar, Warwick University, UK.

Combinatorics Seminar, Queen Mary University, London, UK.

Combinatorics Seminar, Cambridge University, UK.

Combinatorics Seminar, University of Bristol, UK.

Kolloquium Mathematische Informatik, Goethe University, Frankfurt, Germany.

Borel seminar on "High-Dimensional Expanders", Switzerland.

Combinatorics Section, Annual Meeting of Israel Math Union, Dead Sea, Israel.

Berlin Mathematical School Colloquium, Germany.

Workshop on Extremal and Probabilistic Combinatorics, University of Birmingham, UK.

LMS-EMS mathematical weekend, University of Birmingham, UK.

2014

Combinatorics Seminar, KTH, Stockholm, Sweden.

Number Theory Seminar, ETH, Zurich, Switzerland.

Combinatorics Seminar, Oxford University, UK.

Seminar on Stochastic Processes, ETH, Zurich, Switzerland.
 Combinatorics Seminar, Tel Aviv University, Israel.
 Combinatorics Seminar, London School of Economics, UK.
 Combinatorics Seminar, Hebrew University, Jerusalem, Israel.
 Combinatorics Seminar, Graphs, Hypergraphs, and Computing Program, Mittag-Leffler Institute, Sweden.
 Mathematics Colloquium, Tel Aviv University, Israel.
 Extremal Combinatorics Workshop, Inter. Center for Math. Sciences, Edinburgh, Scotland.
 Combinatorics Section, Joint Meeting of German and Polish Math. Societies, Poznan, Poland.
 Random Discrete Structures Section, Barcelona Math Days, Barcelona, Spain.
 Combinatorics Section, Joint Mathematics Meeting of AMS and IMU, Israel.
 Moscow Workshop on Combinatorics and Number Theory, Dolgoprudny, Russia.
 Summit:240 Conference, Budapest, Hungary.
 ICM-2014 Satellite Conference on Extremal and Structural Graph Theory, Gyeongju, Korea.
 5th Polish Combinatorial Conference, Bedlewo, Poland.

2013

Colloquium, University of California at San Diego, USA.
 Colloquium, Hebrew University, Jerusalem, Israel.
 Colloquium, University of California at Riverside, USA.
 Colloquium, Technion, Haifa, Israel.
 Colloquium, University of Illinois at Chicago, USA.
 Colloquium, Beersheba University, Israel.
 Combinatorics and Probability Seminar, Yale University, New Haven, USA.
 Combinatorics Seminar, MIT, Boston, USA.
 Combinatorics Seminar, University of California at Los Angeles, USA.
 Combinatorics Seminar, Tel Aviv University, Israel.
 Combinatorics, Graph Theory and applications Seminar, Universitat Politecnica de Catalunya, Barcelona, Spain.
 Theoretical CS Seminar, University of California at San Diego, USA.
 Operation Research Seminar, ETH, Zurich, Switzerland.
 Extremal Combinatorics at Illinois (EXCILL 2), Urbana, USA.
 Combinatorics and Probability Workshop, Obervolfach, Germany.
 Canadian Discrete and Algorithmic Mathematics Conference (CanaDAM), St. John's, Newfoundland, Canada.
 Erdős Centennial, Budapest, Hungary.
 International Conference on Random Structures and Algorithms (RS&A 16th), Poznan, Poland.
 Workshop in Graph Theory, Utrecht, Holland.

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.
126. I. Ben-Eliezer, M. Krivelevich and B. Sudakov, Long cycles in subgraphs of (pseudo)random directed graphs, *J. Graph Theory* 70 (2012), 284–296.
127. C. Lee, B. Sudakov and D. Vilenchik, Getting directed Hamilton cycle twice faster, submitted. *Combinatorics, Probability and Computing* 21 (2012), 773–801.
128. H. Huang and B. Sudakov, A counterexample to the Alon-Saks-Seymour conjecture and related problems, *Combinatorica* 32 (2012), 205–219.
129. D. Conlon, J. Fox and B. Sudakov, Erdős-Hajnal-type theorems in hypergraphs, *J. Combinatorial Theory Ser. B* 102 (2012), 1142–1154.
130. C. Lee and B. Sudakov, Dirac’s theorem for random graphs, *Random Structures and Algorithms* 41 (2012), 293–305.
131. J. Fox, C. Lee and B. Sudakov, Maximum union-free subfamilies, *Israel Journal of Mathematics* 191 (2012), 959–971.

132. D. Conlon, J. Fox and B. Sudakov, On two problems in graph Ramsey theory, *Combinatorica* 32 (2012), 513–535.
133. J. Fox, J. Pach, B. Sudakov and A. Suk, Erdős-Szekeres-type theorems for monotone paths and convex bodies, *Proc. London Math. Soc.* 105 (2012), 953–982.
134. S. Das, C. Lee and B. Sudakov, Rainbow Turan Problem for Even Cycles, *European Journal of Combinatorics* 34 (2013), 905–915.
135. D. Conlon, J. Fox and B. Sudakov, An improved bound for the stepping-up lemma, *Discrete Applied Math.* 161 (2013), 1191–1196.
136. S. Das, H. Huang, J. Ma, H. Naves and B. Sudakov, A problem of Erdős on the minimum number of k -cliques, *J. Combinatorial Theory Ser. B* 103 (2013) 344–373.
137. C. Lee, P. Loh and B. Sudakov, Self-similarity of graphs, *SIAM J. of Discrete Math* 27 (2013), 959–972.
138. M. Krivelevich, E. Lubetzky and B. Sudakov, Longest cycles in sparse random digraphs, *Random Structures and Algorithms* 43 (2013), 1–15.
139. J. Fox, C. Lee, and B. Sudakov, Chromatic number, clique subdivisions, and the conjectures of Hajós and Erdős-Fajtlowicz, *Combinatorica* 33 (2013), 181–197.
140. 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, *Combinatorics, Probability and Computing* 22 (2013), 859–873.
141. M. Krivelevich and B. Sudakov, The phase transition in random graphs – a simple proof, *Random Structures and Algorithms* 43 (2013), 131–138.
142. C. Lee, P. Loh and B. Sudakov, Bisections of graphs, *J. Combinatorial Theory Ser. B* 103 (2013), 599–629.
143. P. Keevash, B. Sudakov and J. Verstraete, On a conjecture of Erdős and Simonovits: Even cycles, *Combinatorica* 33 (2013), 699–732.
144. N. Parrish, B. Sudakov and E. Eskin, Genome reassembly with high-throughput sequencing data, *BMC Genomics* 14 (2013), (Suppl 1):S8. A preliminary version appeared in: 11th Asia Pacific Bioinformatics Conference (APBC 2013): Genomics.
145. N. Alon A. Moitra and B. Sudakov, Nearly Complete Graphs Decomposable into Large Induced Matchings and their Applications, *J. European Math. Soc.* 15 (2013), 1575–1596. A preliminary version appeared in: *Proc. of the 44th ACM STOC* (2012), 1079–1090.
146. Y. Peres, D. Sotnikov, B. Sudakov and U. Zwick, All-Pairs shortest paths in $O(n^2)$ time with high probability, *Journal of the ACM* 60 (2013), Article 26. A preliminary version appeared in: *Proc. of the 51st IEEE FOCS* (2010), 663–672.

147. D. Conlon, J. Fox and B. Sudakov, Two extensions of Ramsey's theorem, *Duke Mathematical Journal* 162 (2013), 2903–2927.
148. D. Conlon, J. Fox and B. Sudakov, Short proofs of some extremal results, *Combinatorics, Probability and Computing* 23 (2014), 8–28.
149. R. Glebov, B. Sudakov and T. Szabo, How many colors guarantee a rainbow matching?, *The Electronic J. of Combinatorics* 21(1) (2014), P1.27.
150. P. Allen, P. Keevash, B. Sudakov and J. Verstraëte, Turán numbers of bipartite graphs plus an odd cycle, *J. Combinatorial Theory Ser. B* 106 (2014), 134–162.
151. M. Krivelevich, C. Lee and B. Sudakov, Robust Hamiltonicity of Dirac graphs, *Transactions Amer. Math. Soc.* 366 (2014), 3095–3130.
152. H. Huang, N. Linial, H. Naves, Y. Peled and B. Sudakov, On the 3-local profiles of graphs, *J. Graph Theory* 76 (2014), 236–248.
153. A. Ferber, R. Hod, M. Krivelevich and B. Sudakov, A construction of almost Steiner systems, *J. Combinatorial Designs* 22 (2014), 488–494.
154. D. Conlon, J. Fox, J. Pach, B. Sudakov and A. Suk, Ramsey-type results for semi-algebraic relations, *Transactions Amer. Math. Soc.* 366 (2014), 5043–5065.
155. Y. Afek, Y. Babichenko, U. Feige, E. Gafni, N. Linial and B. Sudakov, Musicla chairs , *SIAM J. of Discrete Math.* 28 (2014), 1578–1600. A preliminary version appeared as: Oblivious Collaboration, *Proc. of the 25th Symposium on Distributed Computing (DISC'11)*, LNCS volume 6950, 2011, 489–504.
156. H. Huang and B. Sudakov, The minimum number of nonnegative edges in hypergraphs, *The Electronic J. of Combinatorics* 21(3) (2014), P3.7.
157. M. Krivelevich, E. Lubetzky and B. Sudakov, Cores of random graphs are born Hamiltonian, *Proc. London Math. Soc.* 109 (2014), 161–188.
158. D. Conlon, J. Fox and B. Sudakov, Cycle packing, *Random Structures and Algorithms* 45 (2014), 608–626.
159. W. Gan, D. Korandi and B. Sudakov, $K_{s,t}$ -saturated bipartite graphs, *European Journal of Combinatorics* 45 (2015), 12–20.
160. M. Krivelevich, C. Lee and B. Sudakov, Long paths and cycles in random subgraphs of graphs with large minimum degree, *Random Structures and Algorithms* 46 (2015), 320–345.
161. D. Conlon, J. Fox, C. Lee and B. Sudakov, The Erdős-Gyárfás problem on generalized Ramsey numbers, *Proc. London Math. Soc.* 110 (2015), 1–18.
162. J. von Brecht, B. Sudakov and A. Bertozzi, Swarming on random graphs II, *Journal of Statistical Physics* 158 (2015), 699–734.

163. S. Das and B. Sudakov, Most probably intersecting hypergraphs, *The Electronic J. of Combinatorics* 22(1) (2015), P1.80.
164. W. Gan, P. Loh and B. Sudakov, Maximizing the number of independent sets of a fixed size, *Combinatorics, Probability and Computing* 24 (2015), 521–527.
165. A. Shapira and B. Sudakov, Small complete minors above the extremal edge density, *Combinatorica* 35 (2015), 75–94.
166. S. Das, W. Gan and B. Sudakov, Sperner’s Theorem and a Problem of Erdős, Katona and Kleitman, *Combinatorics, Probability and Computing* 24 (2015), 585–608.
167. J. Ma, H. Naves and B. Sudakov, Discrepancy of random graphs and hypergraphs, *Random Structures and Algorithms* 47 (2015), 147–162.
168. W. Samotij and B. Sudakov, On the number of monotone sequences, *J. Combinatorial Theory Ser. B* 115 (2015), 132–163.
169. N. Alon, S. Das, R. Glebov and B. Sudakov, Comparable pairs in families of sets, *J. Combinatorial Theory Ser. B* 115 (2015), 164–185.
170. D. Conlon, J. Fox and B. Sudakov, Recent developments in graph Ramsey theory, in: *Surveys in Combinatorics 2015*, Cambridge University Press, 2015, 49–118.
171. D. Conlon, J. Fox, C. Lee and B. Sudakov, On the grid Ramsey problem and related questions, *Int. Math. Res. Not. (IMRN)* 2015 (2015), 8052–8084.
172. D. Korandi, M. Krivelevich and B. Sudakov, Decomposing random graphs into few cycles and edges, *Combinatorics, Probability and Computing* 24 (2015), 857–872.
173. A. Ferber, M. Krivelevich and B. Sudakov, Counting and packing Hamilton ℓ -cycles in dense hypergraphs, *Journal of Combinatorics* 7 (2016), 135–157.
174. S. Das, B. Sudakov and P. Vieira, Almost-Fisher families, *J. Combinatorial Theory Ser. A* 138 (2016), 175–207.
175. C. Lee, P. Loh and B. Sudakov, Judicious partitions of directed graphs, *Random Structures and Algorithms* 48 (2016), 147–170.
176. D. Korandi, Y. Peled and B. Sudakov, A random triadic process, *SIAM J. of Discrete Math.* 30 (2016), 1–19.
177. D. Conlon, J. Fox, C. Lee and B. Sudakov, Ramsey numbers of cubes versus cliques, *Combinatorica* 36 (2016), 37–70.
178. W. Samotij and B. Sudakov, The number of additive triples in subsets of abelian groups, *Math. Proc. Cambridge Philos. Soc.* 160 (2016), 495–512.
179. N. Alon, H. Naves and B. Sudakov On the maximum quartet distance between phylogenetic trees, *SIAM J. of Discrete Math.* 30 (2016), 718–735. A preliminary version appeared in: *Proc. of the 27th Annual ACM-SIAM SODA*, ACM Press (2016), 2095–2106.

180. D. Hefetz, A. Steger and B. Sudakov, Random directed graphs are robustly Hamiltonian, *Random Structures and Algorithms* 49 (2016), 345–362.
181. N. Kamčev, M. Krivelevich and B. Sudakov, Some Remarks on Rainbow Connectivity, *J. Graph Theory* 83 (2016), 372–383.
182. M. Krivelevich, C. Lee and B. Sudakov, Compatible Hamilton cycles in random graphs, *Random Structures and Algorithms* 49 (2016), 533–557.
183. D. Conlon, J. Fox and B. Sudakov, Short proofs of some extremal results II, *J. Combinatorial Theory Ser. B* 121 (2016), 173–196.
184. M. Krivelevich, M. Kwan and B. Sudakov, Cycles and matchings in randomly perturbed digraphs and hypergraphs, *Combinatorics, Probability and Computing* 25 (2016), 909–927.
185. A. Ferber, M. Krivelevich, B. Sudakov and P. Vieira, Finding Hamilton cycles in random graphs with few queries, *Random Structures and Algorithms* 49 (2016), 635–668.
186. S. Das, W. Gan and B. Sudakov, The minimum number of disjoint pairs in set systems and related problems, *Combinatorica* 36 (2016), 623–660.
187. H. Huang, N. Linial, H. Naves, Y. Peled and B. Sudakov, On the densities of cliques and independent sets in graphs, *Combinatorica* 36 (2016), 493–512.
188. D. Conlon, J. Fox, C. Lee and B. Sudakov, Ordered Ramsey numbers, *J. Combinatorial Theory Ser. B* 122 (2017), 353–383.
189. A. Ferber, M. Krivelevich and B. Sudakov, Counting and packing Hamilton cycles in dense graphs and oriented graphs, *J. Combinatorial Theory Ser. B* 122 (2017), 196–220.
190. D. Korandi and B. Sudakov, Domination in 3-tournaments, *J. Combinatorial Theory Ser. A* 146 (2017), 165–168.
191. A. Ferber, M. Krivelevich, B. Sudakov and P. Vieira, Finding paths in sparse random graphs requires many queries, *Random Structures and Algorithms* 50 (2017), 71–85.
192. B. Sudakov and J. Volec, Properly colored and rainbow copies of graphs with few cherries, *J. Combinatorial Theory Ser. B* 122 (2017), 391–416.
193. A. Pokrovskiy and B. Sudakov, Ramsey goodness of paths, *J. Combinatorial Theory Ser. B* 122 (2017), 384–390.
194. B. Sudakov and J. Verstraete, The Extremal Function for Cycles of length $\ell \bmod k$, *The Electronic J. of Combinatorics* 24 (2017), P1.7.
195. R. Glebov, H. Naves and B. Sudakov, The threshold probability for long cycles, *Combinatorics, Probability and Computing* 26 (2017), 208–247.
196. M. Krivelevich, M. Kwan and B. Sudakov, Bounded-degree spanning trees in randomly perturbed graphs, *SIAM J. of Discrete Math.* 31 (2017), 155–171.

197. J. Fox, H. Huang and B. Sudakov, On graphs decomposable into induced matchings of linear sizes, *Bull. London Math. Soc.* 49 (2017), 45–57.

Accepted for publication

198. M. Krivelevich, C. Lee and B. Sudakov, Compatible Hamilton cycles in Dirac graphs, *Combinatorica*, to appear.
199. A. Kostochka, B. Sudakov and J. Verstraete, Cycles in triangle-free graphs of large chromatic number, *Combinatorica*, to appear.
200. D. Korandi and B. Sudakov, Saturation in random graphs, *Random Structures and Algorithms*, to appear.
201. R. Gelbov, Z. Luria and B. Sudakov, The number of Hamiltonian decompositions of regular graphs, *Israel Journal of Mathematics*, to appear.
202. N. Alon, A. Pokrovskiy and B. Sudakov, Random subgraphs of properly edge-coloured complete graphs and long rainbow cycles, *Israel Journal of Mathematics*, to appear.
203. N. Kamčev, B. Sudakov and J. Volec, Bounded colourings of multipartite graphs and hypergraphs, *European Journal of Combinatorics*, to appear.
204. D. Conlon, J. Fox and B. Sudakov, Hereditary quasirandomness without regularity, *Math. Proc. Cambridge Philos. Soc.*, to appear.
205. M. Kwan and B. Sudakov, Intercalates and Discrepancy in Random Latin Squares, *Random Structures and Algorithms*, to appear.
206. N. Kamčev, T. Łuczak and B. Sudakov, Anogram-free colorings, *Combinatorics, Probability and Computing*, to appear
207. A. Ferber, E. Long and B. Sudakov, Counting Hamilton decompositions of oriented graphs, *Int. Math. Res. Not. (IMRN)*, to appear.
208. I. Balla, F. Draxler, P. Keevash and B. Sudakov, Equiangular Lines and Spherical Codes in Euclidean Space, *Inventiones*, to appear.

Submitted papers

209. N. Alon, K. Efremenko and B. Sudakov, Testing Equality in Communication Graphs, submitted.
210. J. Briggs, A. Frieze, M. Krivelevich, P. Loh and B. Sudakov, Packing Hamilton Cycles Online, submitted.
211. B. Sudakov, Robustness of graph properties, submitted.
212. B. Sudakov and P. Vieira, Two remarks on even and oddtown problems, submitted.

213. I. Balla, A. Pokrovskiy and B. Sudakov, Ramsey goodness of bounded degree trees, submitted.
214. J. Noel, A. Scott and B. Sudakov, Supersaturation in Posets and Applications Involving the Container Method, submitted.
215. M. Kwan, B. Sudakov and P. Vieira, Non-trivially intersecting multi-part families, submitted.
216. M. Bucić, S. Letzter and B. Sudakov, Monochromatic paths in random tournaments, submitted.
217. I. Balla and B. Sudakov, Equiangular subspaces in Euclidean spaces, submitted.
218. A. Pokrovskiy and B. Sudakov, Linearly many rainbow trees in properly edge-coloured complete graphs, submitted.
219. T. Kalinowski, N. Kamčev and B. Sudakov, Zero forcing number of graphs, submitted.
220. D. Conlon, J. Fox and B. Sudakov, Tower-type bounds for unavoidable patterns in words, submitted.