

**Affiliation**

Professor, Department of Mathematics, ETH, Zurich, 8092, Switzerland.

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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.

**Academic appointments**

2013- : Professor, Department of Mathematics, ETH, Zürich, Switzerland.

2015 (Fall): Fellow of Merton College, Oxford University.

2007-2014 : Professor, Department of Mathematics, UCLA, Los Angeles, USA.

2012 (Spring): Leverhulme Visiting Professor, Cambridge University and Fellow of Trinity College.

2002-2007 : Assistant Professor, Department of Mathematics, Princeton University, USA.

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

2003 (Spring), 2005-2006, 2007 (Fall) : Member, Institute for Advanced Study, Princeton, USA.

**Education**

1995-1999 : Ph. D. in Mathematics (with distinction), Tel Aviv University, Tel Aviv, Israel.

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**

2019: Member of the Academia Europaea.

2014: Humboldt Research Award, Germany.

2013: Fellow of the American Mathematical Society, Inaugural Class.

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.

**Grants**

2013-2016, 2017-2020, 2020-2024: Swiss National Science Foundation grants.

2001-2004, 2004-2007, 2006-2011, 2011-2014: USA National Science Foundation grants.

2005-2009, 2009-2013: USA-Israel Binational Science Foundation grants.

### **Ph. D Students**

Princeton University: P. Keevash (2004), B. Bukh (2009), P. Loh (2010), J. Fox (2010).

UCLA: C. Lee (2012), H. Huang (2012), S. Das (2014), H. Naves (2014), W. Gan (2014).

ETH: D. Korandi (2016), P. Vieira (2017), N. Kamčev (2018), M. Kwan (2018), I. Balla (2019), M. Bucić (2021), N. Draganić, D. Munha Correia, D. Bradač, Z. Jin - in progress.

### **Other Professional Activities**

EDITORIAL BOARDS: 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 the Association for Mathematical Research (JAMR), (since 2022)  
Journal of Graph Theory (since 2004)  
Journal Combinatorial Theory Ser. B (since 2017)  
Journal of Combinatorics (since 2010)  
Mathematics research Reports (since 2017)  
Moscow Journal of Combinatorics and Number Theory (since 2010)  
Mathematical Proceedings of Cambridge Philosophical Society (since 2013)  
Random Structures & Algorithms, (since 2020)  
Research in the Mathematical Sciences (RIMS), (since 2014)

PAST EDITORIAL BOARDS: Mathematical Surveys and Monographs series of AMS (2008-2020)  
SIAM Journal on Discrete Mathematics (2003-2018)  
University Lecture Series American Mathematical Society (2010-2012)

### **COMMITTEES:**

Member of Basic Science Lifetime Award Committee and Frontiers of Science Award Committee in Mathematics, The first International Congress of Basic Science (ICBS), China, 2023.

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, Oberwolfach Institute, Germany (since 2017).

Scientific Advisory Board, Banff International Research Station, Canada. (2014-2017)

### **SOME ORGANIZATIONAL WORK:**

Series of workshop on Combinatorics, Obervolfach, Germany, 2023, 2020, 2017, 2014, 2011.

Series of workshop on Combinatorics, Banff Center, Canada, 2019, 2015, 2012, 2009, 2005.

19<sup>th</sup> International Conference on Random Structures and Algorithms, ETH, Zurich, 2019.

Workshop on Probabilistic and Extremal Combinatorics, CMSA, Harvard, USA, 2018.

Workshop on Probabilistic and Extremal Combinatorics, FIM, ETH, Zurich, Switzerland, 2016.

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

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

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

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.

### **Selected Talks**

I have given over 300 talks in seminars, departmental colloquiums and conferences at more than 50 universities and research centers over the world. The following contains selected highlights.

2023: Plenary talk, The first International Congress of Basic Science (ICBS), Beijing, China.

2018: MINT Distinguished Lectures, Tel Aviv University, Israel.

2017: Robinson lectures, Yale University, USA.

2017: Plenary talk, International Conference on Random Structures and Algorithms, Gniezno, Poland.

2017: Plenary talk, British Combinatorial Conference, Glasgow, UK.

2016: Plenary talk, SIAM Conference on Discrete Mathematics, Atlanta, USA.

2010: Invited talk, Combinatorics section, International Congress (ICM), Hyderabad, India.

2007: Plenary talk, European Conference on Combinatorics, Graph Theory and Applications (Eurocomb), Sevilla, Spain.

## 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  $\tau$ -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 9<sup>th</sup> 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 12<sup>th</sup> 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 12<sup>th</sup> 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 6<sup>th</sup> 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 43<sup>rd</sup> 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. Sudakov, E. Szemerédi and V. Vu, On a question of Erdős and Moser, *Duke Math. J.* 129 (2005), 129–155.
51. B. Reed and B. Sudakov, List coloring when the chromatic number is close to the order of the graph, *Combinatorica* 25 (2005), 117–123.
52. 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.
53. N. Alon, M. Krivelevich and B. Sudakov, MaxCut in  $H$ -free graphs, *Combinatorics, Probability and Computing* 14 (2005), 629–647.
54. P. Keevash and B. Sudakov, The Turán number of the Fano plane, *Combinatorica* 25 (2005), 561–574.
55. A. Frieze, M. Krivelevich and B. Sudakov, The strong chromatic index of random graphs, *SIAM J. of Discrete Math.* 19 (2005), 719–727.
56. P. Keevash and B. Sudakov, On a hypergraph Turán problem of Frankl, *Combinatorica* 25 (2005), 673–706.
57. N. Alon and B. Sudakov,  $H$ -free graphs of large minimum degree, *The Electronic J. of Combinatorics* 13 (2006), R19.
58. P. Keevash, P. Loh and B. Sudakov, Bounding the number of edges in permutation graphs, *The 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 46<sup>th</sup> 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. D. Conlon, J. Fox and B. Sudakov, Hypergraph Ramsey numbers, *J. Amer. Math. Soc.* 23 (2010), 247–266.
101. M. Krivelevich, E. Lubetzky and B. Sudakov, Hamiltonicity thresholds in Achlioptas processes, *Random Structures and Algorithms* 37 (2010), 1–24.
102. B. Sudakov and J. Vondrák, Nearly optimal embedding of trees, *Combinatorica* 30 (2010), 445–470.
103. 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 37<sup>th</sup> ACM STOC* (2005), 1–10.
104. P. Loh, O. Pikhurko and B. Sudakov, Maximizing the number of  $q$ -colorings, *Proc. London Math. Soc.* 101 (2010), 655–696.
105. N. Alon and B. Sudakov, Increasing the chromatic number of a random graph, *Journal of Combinatorics* 1 (2010), 345–356.
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.
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302. D. Bradač, L. Gishboliner and B. Sudakov, On Ramsey size-linear graphs and related questions, *SIAM J. of Discrete Math.*, to appear.

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#### Submitted papers

305. B. Sudakov and I. Tomon, Evasive sets, covering by subspaces, and point-hyperplane incidences, submitted.

306. O. Janzer, B. Sudakov and I. Tomon, Small subgraphs with large average degree, submitted.

307. O. Janzer, B. Sudakov and I. Tomon, Regular subgraphs of linear hypergraphs, submitted.

308. O. Janzer and B. Sudakov, On the Turán number of the hypercube, submitted.

309. D. Bradač, N. Draganić and B. Sudakov, Effective bounds for induced size-Ramsey numbers of cycles, submitted.

310. N. Draganić, D. Munha Correia and B. Sudakov, Chvátal-Erdős condition for pancyclicity, submitted.

311. L. Gishboliner, Z. Jin and B. Sudakov, The Minimum Degree Removal Lemma Thresholds, submitted.

312. N. Draganić, D. Munha Correia and B. Sudakov, A generalization of Bondy’s pancyclicity theorem, submitted.

313. S. Glock, D. Munha Correia and B. Sudakov, Hamilton cycles in pseudorandom graphs, submitted.

314. I. Balla, O. Janzer and B. Sudakov, On MaxCut and the Lovász theta function, submitted.

315. N. Draganić, A. Methuku, D. Munha Correia and B. Sudakov, Cycles with many chords, submitted.