

BIBLIOGRAPHY

Publications of Oded Schramm

1988

- [1] Illuminating sets of constant width. *Mathematika* **35** 180–189.
- [2] On the volume of sets having constant width. *Israel J. Math.* **63** 178–182.

1991

- [3] Existence and uniqueness of packings with specified combinatorics. *Israel J. Math.* **73** 321–341.
- [4] Rigidity of infinite (circle) packings. *J. Amer. Math. Soc.* **4** 127–149.

1992

- [5] How to cage an egg. *Invent. Math.* **107** 543–560.

1993

- [6] Square tilings with prescribed combinatorics. *Israel J. Math.* **84** 97–118.
- [7] Fixed points, Koebe uniformization and circle packings (with Z.-X. He). *Ann. of Math. (2)* **137** 369–406.

1994

- [8] Average kissing numbers for non-congruent sphere packings (with G. Kuperberg). *Math. Res. Lett.* **1** 339–344.
- [9] Rigidity of circle domains whose boundary has σ -finite linear measure (with Z.-X. He). *Invent. Math.* **115** 297–310.

1995

- [10] Transboundary extremal length. *J. Anal. Math.* **66** 307–329.
- [11] The inverse Riemann mapping theorem for relative circle domains (with Z.-X. He). *Pacific J. Math.* **171** 157–165.
- [12] Koebe uniformization for “almost circle domains” (with Z.-X. He). *Amer. J. Math.* **117** 653–667.

1996

- [13] Percolation beyond Z^d , many questions and a few answers (with I. Benjamini). *Electron. Comm. Probab.* **1** 71–82 (electronic).
- [14] Harmonic functions on planar and almost planar graphs and manifolds, via circle packings (with I. Benjamini). *Invent. Math.* **126** (1996) 565–587.

- [15] Random walks and harmonic functions on infinite planar graphs using square tilings (with I. Benjamini). *Ann. Probab.* **24** 1219–1238.
- [16] On the convergence of circle packings to the Riemann map (with Z.-X. He). *Invent. Math.* **125** 285–305.
- [17] Conformal uniformization and packings. *Israel J. Math.* **93** 399–428.

1997

- [18] On the distortion of relative circle domain isomorphisms (with Z.-X. He). *J. Anal. Math.* **73** 115–131.
- [19] Circle patterns with the combinatorics of the square grid. *Duke Math. J.* **86** 347–389.

1998

- [20] Conformal invariance of Voronoi percolation (with I. Benjamini). *Comm. Math. Phys.* **197** 75–107.
- [21] Exceptional planes of percolation (with I. Benjamini). *Probab. Theory Related Fields* **111** 551–564.
- [22] The C^∞ -convergence of hexagonal disk packings to the Riemann map (with Z.-X. He). *Acta Math.* **180** 219–245.

1999

- [23] Noise sensitivity of Boolean functions and applications to percolation (with I. Benjamini and G. Kalai). *Publ. Math. Inst. Hautes Études Sci.* **90** 5–43.
- [24] Percolation perturbations in potential theory and random walks (with I. Benjamini and R. Lyons). In *Random Walks and Discrete Potential Theory (Cortona, 1997)*. *Sympos. Math.* **XXXIX** 56–84. Cambridge Univ. Press, Cambridge.
- [25] Indistinguishability of percolation clusters (with R. Lyons). *Ann. Probab.* **27** 1809–1836.
- [26] Critical percolation on any nonamenable group has no infinite clusters (with I. Benjamini, R. Lyons and Y. Peres). *Ann. Probab.* **27** 1347–1356.
- [27] Trees, not cubes: Hypercontractivity, cosiness, and noise stability (with B. Tsirelson). *Electron. Comm. Probab.* **4** 39–49 (electronic).
- [28] Stationary measures for random walks in a random environment with random scenery (with R. Lyons). *New York J. Math.* **5** 107–113 (electronic).

2000

- [29] On the cover time of planar graphs (with J. Jonasson). *Electron. Comm. Probab.* **5** 85–90 (electronic).
- [30] Scaling limits of loop-erased random walks and uniform spanning trees. *Israel J. Math.* **118** 221–288.
- [31] On the effect of adding ϵ -Bernoulli percolation to everywhere percolating subgraphs of Z^d . Probabilistic techniques in equilibrium and nonequilibrium

statistical physics (with I. Benjamini and O. Häggström). *J. Math. Phys.* **41** 1294–1297.

2001

- [32] Scaling limits of random processes and the outer boundary of planar Brownian motion. In *Current Developments in Mathematics, 2000* 233–253. International Press, Somerville, MA.
- [33] Values of Brownian intersection exponents. I. Half-plane exponents (with G. F. Lawler and W. Werner). *Acta Math.* **187** 237–273.
- [34] Values of Brownian intersection exponents. II. Plane exponents (with G. F. Lawler and W. Werner). *Acta Math.* **187** 275–308.
- [35] Recurrence of distributional limits of finite planar graphs (with I. Benjamini). *Electron. J. Probab.* **6** 13 pp. (electronic).
- [36] A percolation formula. *Electron. Comm. Probab.* **6** 115–120 (electronic).
- [37] The dimension of the planar Brownian frontier is $4/3$ (with G. F. Lawler and W. Werner). *Math. Res. Lett.* **8** 401–411.
- [38] Uniform spanning forests (with I. Benjamini, R. Lyons and Y. Peres). *Ann. Probab.* **29** 1–65.
- [39] The dimension of the planar Brownian frontier is $4/3$ (with G. F. Lawler and W. Werner). *Math. Res. Lett.* **8** 13–23.
- [40] Percolation in the hyperbolic plane (with I. Benjamini). *J. Amer. Math. Soc.* **14** 487–507 (electronic).

2002

- [41] Analyticity of intersection exponents for planar Brownian motion (with G. F. Lawler and W. Werner). *Acta Math.* **189** 179–201.
- [42] Sharp estimates for Brownian non-intersection probabilities (with G. F. Lawler and W. Werner). In *In and Out of Equilibrium (Mambucaba, 2000)*. *Progr. Probab.* **51** 113–131. Birkhäuser Boston, Boston, MA.
- [43] Values of Brownian intersection exponents. III. Two-sided exponents (with G. F. Lawler and W. Werner). *Ann. Inst. Henri Poincaré Probab. Stat.* **38** 109–123.
- [44] One-arm exponent for critical 2D percolation (with G. F. Lawler and W. Werner). *Electron. J. Probab.* **7** 13 pp. (electronic).

2003

- [45] First passage percolation has sublinear distance variance (with I. Benjamini and G. Kalai). *Ann. Probab.* **31** 1970–1978.
- [46] Uniform infinite planar triangulations (with O. Angel). *Comm. Math. Phys.* **241** 191–213.
- [47] Markov chain intersections and the loop-erased walk (with R. Lyons and Y. Peres). *Ann. Inst. Henri Poincaré Probab. Stat.* **39** 779–791.

- [48] Conformal restriction: The chordal case (with G. Lawler and W. Werner). *J. Amer. Math. Soc.* **16** 917–955 (electronic).

2004

- [49] Geometry of the uniform spanning forest: Transitions in dimensions 4, 8, 12, ... (with I. Benjamini, H. Kesten and Y. Peres). *Ann. of Math. (2)* **160** 465–491.
- [50] On the scaling limit of planar self-avoiding walk (with G. F. Lawler and W. Werner). In *Fractal Geometry and Applications: A Jubilee of Benoit Mandelbrot, Part 2. Proc. Sympos. Pure Math.* **72** 339–364. Amer. Math. Soc., Providence, RI.
- [51] Conformal invariance of planar loop-erased random walks and uniform spanning trees (with G. F. Lawler and W. Werner). *Ann. Probab.* **32** 939–995.
- [52] A negative answer to Nevanlinna’s type question and a parabolic surface with a lot of negative curvature (with I. Benjamini and S. Merenkov). *Proc. Amer. Math. Soc.* **132** 641–647 (electronic).

2005

- [53] SLE coordinate changes (with D. B. Wilson). *New York J. Math.* **11** 659–669 (electronic).
- [54] Balanced Boolean functions that can be evaluated so that every input bit is unlikely to be read (with I. Benjamini and D. B. Wilson). In *STOC’05: Proceedings of the 37th Annual ACM Symposium on Theory of Computing* 244–250. ACM, New York.
- [55] Emergence of symmetry: Conformal invariance in scaling limits of random systems. In *European Congress of Mathematics* 783–786. Eur. Math. Soc., Zürich.
- [56] Harmonic explorer and its convergence to SLE_4 (with S. Sheffield). *Ann. Probab.* **33** 2127–2148.
- [57] Compositions of random transpositions. *Israel J. Math.* **147** 221–243.
- [58] Basic properties of SLE (with S. Rohde). *Ann. of Math. (2)* **161** 883–924.

2006

- [59] Minimal spanning forests (with R. Lyons and Y. Peres). *Ann. Probab.* **34** 1665–1692.
- [60] Markov chains in smooth Banach spaces and Gromov-hyperbolic metric spaces (with A. Naor, Y. Peres and S. Sheffield). *Duke Math. J.* **134** 165–197.

2007

- [61] Conformally invariant scaling limits: An overview and a collection of problems. In *International Congress of Mathematicians I* 513–543. Eur. Math. Soc., Zürich.

- [62] Random-turn hex and other selection games (with Y. Peres, S. Sheffield and D. B. Wilson). *Amer. Math. Monthly* **114** 373–387.

2008

- [63] Every minor-closed property of sparse graphs is testable (with I. Benjamini and A. Shapira). In *STOC'08* 393–402. ACM, New York.
- [64] Growth of the number of spanning trees of the Erdős–Rényi giant component (with R. Lyons and R. Peled). *Combin. Probab. Comput.* **17** 711–726.
- [65] Ends in uniform spanning forests (with R. Lyons and B. J. Morris). *Electron. J. Probab.* **13** 1702–1725.
- [66] Hyperfinite graph limits. *Electron. Res. Announc. Math. Sci.* **15** 17–23.

2009

- [67] Visibility to infinity in the hyperbolic plane, despite obstacles (with I. Benjamini, J. Jonasson and J. Tykesson). *ALEA Lat. Am. J. Probab. Math. Stat.* **6** 323–342.
- [68] KPZ in one dimensional random geometry of multiplicative cascades (with I. Benjamini). *Comm. Math. Phys.* **289** 653–662.
- [69] Dynamical sensitivity of the infinite cluster in critical percolation (with Y. Peres and J. E. Steif). *Ann. Inst. Henri Poincaré Probab. Stat.* **45** 491–514.
- [70] Conformal radii for conformal loop ensembles (with S. Sheffield and D. B. Wilson). *Comm. Math. Phys.* **288** 43–53.
- [71] Poisson matching (with A. E. Holroyd, R. Pemantle and Y. Peres). *Ann. Inst. Henri Poincaré Probab. Stat.* **45** 266–287.
- [72] Contour lines of the two-dimensional discrete Gaussian free field (with S. Sheffield). *Acta Math.* **202** 21–137.
- [73] Tug-of-war and the infinity Laplacian (with Y. Peres, S. Sheffield and D. B. Wilson). *J. Amer. Math. Soc.* **22** 167–210.

2010

- [74] Quantitative noise sensitivity and exceptional times for percolation (with J. E. Steif). *Ann. of Math. (2)* **171** 619–672.
- [75] Every minor-closed property of sparse graphs is testable (with I. Benjamini and A. Shapira). *Adv. Math.* **223** 2200–2218.
- [76] Boundary proximity of SLE (with W. Zhou). *Probab. Theory Related Fields* **146** 435–450.

2011

- [77] On the scaling limits of planar percolation (with S. Smirnov). *Ann. Probab.* **39** 1768–1814.
- [78] Mixing times for random k -cycles and coalescence-fragmentation chains (with N. Berestycki and O. Zeitouni). *Ann. Probab.* **39** 1815–1843.