

## PUBLICATIONS

- 1) **Quark Deconfinement at High Temperatures: A Rigorous Proof** (with E. Seiler). *Nucl. Phys.* **B 215** [FS 7], 125–135 (1983).
- 2) **Lattice Yang-Mills Theory at Nonzero Temperature and the Confinement Problem** (with E. Seiler). *Commun. Math. Phys.* **91**, 329–380 (1983).
- 3) **Translation Symmetry Breaking in Four Dimensional Lattice Gauge Theories.** *Commun. Math. Phys.* **96**, 251–284 (1984).
- 4) **Translation Symmetry Breaking in  $Z_N$  Lattice Gauge Theories as a Random Surface Problem.** In: K. Osterwalder, R. Stora (eds.): “Critical Phenomena - Random Systems - Gauge Theories” (Les Houches, 1984), 983–985. North Holland, Amsterdam, 1986.
- 5) **Area Law for Spatial Wilson Loops in High Temperature Lattice Gauge Theories.** *Nucl. Phys.* **B 261**, 455–460 (1985).
- 6) **Gribov Copies and Absence of Spontaneous Symmetry Breaking in Compact U(1) Lattice Higgs Models** (with F. Nill). *Nucl. Phys.* **B 270** [FS 16], 92–108 (1986).
- 7) **Symmetry Breaking in Landau Gauge - A Comment to a paper by T. Kennedy and C. King** (with F. Nill). *Commun. Math. Phys.* **104**, 349–352 (1986).
- 8) **No Higgs Mechanism in Scalar Lattice QED with Strong Electromagnetic Coupling** (with F. Nill). *Phys. Lett.* **B 171**, 289–292 (1986).
- 9) **Charged Surfaces and the Analyticity Properties of the String Tension in Lattice Gauge Theories.** *J. Stat. Phys.* **47**, 867–876 (1987).
- 10) **The Phase Diagram of the Abelian Lattice Higgs Model - A Review of Rigorous Results** (with F. Nill). *J. Stat. Phys.* **47**, 877–904 (1987).
- 11) **Lattice Gauge Theories with Continuous Time and Decimation.** In: K. Mitter, L. Pittner (eds.): “Recent Developments in Mathematical Physics” (Schladming, 1987). Springer, Berlin, Heidelberg, New York, 1987.
- 12) **Confinement, Deconfinement and Freezing in Lattice Yang - Mills Theories with continuous Time.** *Commun. Math. Phys.* **116**, 309–342 (1988).
- 13) **A Unified Approach to Phase Diagrams in Field Theory and Statistical Mechanics** (with J. Imbrie). *Commun. Math. Phys.* **123**, 305–328 (1989).
- 14) **The Phase Structure of the Large N Lattice Higgs Model** (with J. Fröhlich and R. Waxler). *Nucl. Phys.* **B328**, 611–638 (1989).
- 15) **First Order Phase Transitions in Unbounded Spin Systems. I. Construction of the Phase Diagram** (with R. Waxler). *Commun. Math. Phys.* **126**, 291–324 (1989).
- 16) **First Order Phase Transitions in Unbounded Spin Systems. II. Completeness of the Phase Diagram** (with R. Waxler). *Commun. Math. Phys.* **126**, 483–506 (1990).
- 17) **First Order Phase Transitions in Large N Lattice Higgs Models and Pirogov Sinai Theory - A short Summary.** In: ”Constructive Quantum Field Theory II” (Erice, 1988).

- 18) **A Rigorous Theory of Finite-Size Scaling at First-Order Phase Transitions** (with R. Kotecký). *J. Stat. Phys.* **61**, 79–110 (1990).
- 19) **Finite-Size Scaling for Potts Models** (with R. Kotecký and S. Miracle-Solé). *J. Stat. Phys.* **62**, 529–551 (1991).
- 20) **Universality of Finite-Size Scaling at First Order Transitions** In: G. J. Morrow, W. Yang (eds.): "Probability Models in Mathematical Physics" (Colorado Springs, 1990), 1–20. World Scientific, Singapore, London, Hong Kong, 1991.
- 21) **Finite-Size Effects at Asymmetric First-Order Phase Transitions** (with R. Kotecký). *Phys. Rev. Lett.* **68**, 1734–1737 (1992).
- 22) **A New Method to Determine First-Order Transition Points from Finite-Size Data** (with W. Janke). *Phys. Rev. Lett.* **68**, 1738–1741 (1992).
- 23) **Finite Size Scaling and Surface Tension from Effective One-Dimensional Systems** (with J. Imbrie). *Commun. Math. Phys.* **145**, 235–280 (1992).
- 24) **Finite-Size Scaling for Potts Models in Long Cylinders**. *Nucl. Phys.* **B384**, 605–645 (1992).
- 25) **Crossover-Finite-Size Scaling at First Order Transitions** (with J. Imbrie). *J. Stat. Phys.* **69**, 487–537 (1992).
- 26) **Equal Weight versus Equal Height: A Numerical Study of an Asymmetric First-Order Transition** (with S. Kappler). *Phys. Lett.* **A171**, 36–42 (1992).
- 27) **Equal Weight versus Equal Height: A Controversy in Finite-Size Scaling Theory** (with S. Kappler). In: H.J. Herrmann, W. Janke and F. Karsch (eds.): "Dynamics of First-Order Phase Transitions" (Jülich, 1992), *Int. J. Mod. Phys.* **C3**, 1099–1107 (1992).
- 28) **A Microscopic Theory of Finite-Size Scaling**. In: H.J. Herrmann, W. Janke and F. Karsch (eds.): "Dynamics of First-Order Phase Transitions" (Jülich, 1992), *Int. J. Mod. Phys.* **C3**, 897–912 (1992).
- 29) **Nonanalyticity and Borelsummability at First Order Phase Transitions**. In: A. Bovier, F. Koukiou (eds.): "Mathematical Physics of Disordered Systems" (Marseille, 1992), Institut f. Angewandte Analysis und Stochastik, Rep. No 3, (1992).
- 30) **An Explicit Formula for the Interface Tension of the 2D Potts model** (with W. Janke). *J. de Physique I (France)* **2**, 2011–2018 (1992).
- 31) **Finite-Size Scaling of the Mass Gap for First Order Phase Transitions**. In: J. Smit, P. van Baal (eds.): "Lattice 92" (Amsterdam, 1992). *Nucl. Phys. B (Proc. Suppl.)* **30**, 168–175 (1993).
- 32) **Finite-Size Scaling for First-Order Phase Transitions: Rigorous Results** (with R. Kotecký). In: S. Hess (ed.): "Invited papers from STATPHYS 18" (Berlin, 1992). *Physica* **A194**, 128–136 (1993).
- 33) **Long Cylinders, Surface Tension and Iterated Cluster Expansions**. In: R. Kotecký (ed.): "Phase transitions: physics, mathematics, biology" (Prague, 1992). World Scientific, Singapore, 1993.
- 34) **The Crossover from First to Second-Order Finite-Size Scaling: A numerical Study** (with P. Rakow, S. Kappler). *J. Phys. I France* **4**, 1027–1048 (1994).

- 35) **Surface Induced Finite-Size Effects for First-Order Phase Transitions** (with R. Kotecký). *J. Stat. Phys.* **79**, 43–115 (1995).
- 36) **Does the Roughness of the Substrate Enhance Wetting?** (with J. de Coninck, R. Kotecký, M. Zinque). *Phys. Rev. Lett.* **74**, 2292–2294 (1995).
- 37) **Meissner Phase for a Model of Oriented Flux Lines** (with J.T. Chayes, C. King). *J. Phys. A: Math. Gen.* **28**, 6483–6499 (1995).
- 38) **The Staggered Charge-Order Phase of the Extended Hubbard Model in the Atomic Limit** (with J. Jędrzejewski, R. Kotecký). *J. Phys. A: Math. Gen.* **29**, 733–747 (1996).
- 39) **The Covariance Matrix of the Potts model: A Random Cluster Analysis** (with J.T. Chayes). *J. Stat. Phys.* **82**, 1235–1297 (1996).
- 40) **Low Temperature Phase Diagrams for Quantum Perturbations of Classical Spin Systems** (with R. Kotecký, D. Ueltschi). *Commun. Math. Phys.* **181**, 409–446 (1996).
- 41) **Dobrushin States for Classical Spin Systems with Complex Interactions** (with J.T. Chayes, J. Fröhlich). *J. Stat. Phys.* **89**, 895–928 (1997).
- 42) **Dobrushin States in Quantum Lattice Systems** (with J.T. Chayes, J. Fröhlich). *Commun. Math. Phys.* **189**, 591–619 (1997).
- 43) **An Equilibrium Lattice Model of Wetting on Rough Substrates** (with R. Kotecký, J. de Coninck). *J. Stat. Phys.* **94**, 299–320 (1999).
- 44) **Uniform boundedness of Crossing Probabilities implies Hyperscaling** (with J.T. Chayes, H. Kesten, J. Spencer). *Rand. Struct. Alg.* **15**, 368–413 (1999).
- 45) **The Van Den Berg-Kesten-Reimer Inequality: A Review** (with J.T. Chayes, D. Randall). In: R. Durrett, Bramsoned, M. (eds.): “Perplexing Problems in Probability: Festschrift in Honor of Harry Kesten.” Birkhäuser, Boston, 1999. *Progr. Probab.* **44**, 159–173 (1999).
- 46) **Torpid Mixing of some MCMC Algorithms in Statistical Physics** (with J.T. Chayes, A. Freeze, J. H. Kim, P. Tetali, E. Vigoda, V. Vu). *Proceedings of the 40<sup>th</sup> IEEE Symposium on Foundations of Computer Science (FOCS)*, 218–229 (1999).
- 47) **Mean-field lattice trees** (with J.T. Chayes, R. van der Hofstad, G. Slade). *Ann. Comb.* **3**, 205–221 (1999).
- 48) **Low Temperature Phase Diagrams of Fermionic Lattice Systems** (with R. Kotecký). *Commun. Math. Phys.* **208**, 575–604 (2000).
- 49) **Sharp Phase Boundaries for a Lattice Flux Line Model** (with J.T. Chayes, C. King, N. Madras). *J. Stat. Phys.* **98**, 1075–1113 (2000).
- 50) **Gibbs States of Graphical Representations of the Potts Model with External Fields** (with M. Biskup, J.T. Chayes, R. Kotecký). *J. Math. Phys.* **41**, 1170–1210 (2000).
- 51) **Anisotropic Self-Avoiding Walks** (with J.T. Chayes, C. King, N. Madras). *J. Math. Phys.* **41**, 1321–1337 (2000).
- 52) **General Theory of Lee-Yang Zeros in Models with First-Order Phase Transitions** (with M. Biskup, J.T. Chayes, L. Kleinwaks, R. Kotecký). *Phys. Rev. Lett.* **84**, 4794–4797 (2000).
- 53) **The Birth of the Infinite Cluster: Finite-Size Scaling in Percolation** (with J.T. Chayes, H. Kesten, J. Spencer). *Commun. Math. Phys.* **224**, 153–204

- (2001).
- 54) **The Scaling Window of the 2-SAT Transition** (with B. Bollobás, J.T. Chayes, J. H. Kim, D. Wilson). *Rand. Struct. Alg.* **18**, 201–256 (2001).
  - 55) **Sharp Threshold and Scaling Window for the Integer Partitioning Problem** (with J.T. Chayes, B. Pittel). *Proceedings of the 33<sup>rd</sup> ACM Symposium on the Theory of Computing (STOC)*, 330–336 (2001).
  - 56) **Phase Transition and Finite-Size Scaling for the Integer Partitioning Problem** (with J.T. Chayes, B. Pittel). *Rand. Struct. Alg.* **19**, 247–288 (2001).
  - 57) **Finite-Size Effects for the Potts Model with Weak Boundary Conditions** (with R. Kotecký, I. Medved). *J. Stat. Phys.* **109**, 67–131 (2002).
  - 58) **Directed Scale-Free Graphs** (with B. Bollobas, J.T. Chayes and O. Riordan). *Proceedings 14th ACM-SIAM Symposium on Discrete Algorithms (SODA)*, 132–139 (2003).
  - 59) **Degree Distribution of the FKP Network Model** (with N. Berger, B. Bollobas, J.T. Chayes and O. Riordan). *Proceedings of the 30<sup>th</sup> International Colloquium on Automata, Languages and Programming (ICALP)*, 725–738, (2003).
  - 60) **Competition-Induced Preferential Attachment** (with N. Berger, J. T. Chayes, R. D’Souza and R.D. Kleinberg). *Proceedings 31<sup>th</sup> International Colloquium on Automata, Languages and Programming (ICALP)*, 208–221 (2004).
  - 61) **On the Sampling Problem for H-Colorings on the Hypercubic Lattice** (with J.T. Chayes, M. Dyer, P. Tetali). In: J. Nesetril and P. Winkler (eds.), “Graphs, Homomorphisms and Statistical Physics”. *DIMACS Ser. Disc. Math. Theoret. Comput. Sci.* **63**, 13–28 (2004).
  - 62) **Constrained Integer Partitions** (with J.T. Chayes, S. Mertens, B. Pittel). *Proceedings of the 6<sup>th</sup> Latin American Symposium on Theoretical Informatics*, 59–68, (2004).
  - 63) **Phase Diagram for the Constrained Integer Partitioning Problem** (with J.T. Chayes, S. Mertens, B. Pittel). *Rand. Struct. Alg.* **24**, 315–380 (2004).
  - 64) **Exploring the Community Structure of Newsgroups** (with J.T. Chayes, M. Mahdian and A. Saberi). *Proceedings of the 10<sup>th</sup> ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, 783 - 787 (2004).
  - 65) **Partition Function Zeros at First-Order Phase Transitions: Piorogov-Sinai theory** (with M. Biskup, J.T. Chayes, L. Kleinwaks, R. Kotecký). *J. Stat. Phys.* **116**, 97–155 (2004).
  - 66) **Partition function Zeros at First-Order Phase Transitions: A general analysis** (with M. Biskup, J.T. Chayes, L. Kleinwaks, R. Kotecký). *Commun. Math. Phys.* **251**, 79–131 (2004).
  - 67) **Random Subgraphs of Finite graphs: I. The Scaling Window under the Triangle Condition** (with J.T. Chayes, R. van der Hofstad, G. Slade). *Rand. Struct. Alg.* **27**, 137–184 (2005).
  - 68) **Random Subgraphs of Finite Graphs: II. The Lace Expansion and the Triangle Condition** (with J.T. Chayes, R. van der Hofstad, G. Slade). *Ann. Prob.* **33**, 1886–1944 (2005).
  - 69) **Degree Distribution of Competition-Induced Preferential Attachment Graphs** (with N. Berger, J.T. Chayes, R. D’ Souza and R.: Kleinberg). *Combin. Probab. Comput.* **14**, 697–721 (2005).

- 70) **On the Spread of Viruses on the Internet** (with N. Berger, J.T. Chayes and A. Saberi). *Proceedings of the 14th ACM-SIAM Symp. on Disc. Alg. (SODA)*, 301–310 (2005).
- 71) **Multi-Unit Auctions with Budget-Constrained Bidders** (with J. Chayes, N. Immorlica, M. Mahdian and A. Saberi). *Proceedings of the 6<sup>th</sup> ACM Conference on Electronic Commerce (EC)*, 44–51 (2005).
- 72) **Random Subgraphs of Finite Graphs: III. The Phase Transition for the n-cube** (with J.T. Chayes, R. van der Hofstad, G. Slade). *Combinatorica* **26**, 395–410 (2006).
- 73) **Absence of Zeros for the Chromatic Polynomial on Bounded Degree Graphs.** *Combin. Probab. Comput.* **15**, 63–74 (2006).
- 74) **Counting Graph Homomorphisms** (with J.T. Chayes, L. Lovasz, V. Sos, B. Szegedy and K. Vesztergombi). In: M. Klazar, J. Kratochvil, M. Loebl, J. Matousek, R. Thomas, P. Valtr (eds.) “Topics in Discrete Mathematics”, 315–371. Springer, 2006.
- 75) **Graph Limits and Parameter Testing** (with J.T. Chayes, L. Lovasz, V. Sos, B. Szegedy and K. Vesztergombi). *Proceedings of the 38<sup>rd</sup> Annual ACM Symposium on the Theory of Computing (STOC)*, 261–270 (2006).
- 76) **The Kesten-Stigum Reconstruction Bound is Tight for Roughly Symmetric Binary Channels** (with J.T. Chayes, E. Mossel and S. Roch). *Proceedings of the 47<sup>th</sup> Annual IEEE Symposium on Foundations of Computer Science (FOCS)*, 518–530 (2006).
- 77) **Emergence of Tempered Preferential Attachment from Optimization** (with N. Berger, J.T. Chayes, R. D’Souza and R. D. Kleinberg). Cover article, *Proceedings of the National Academy of Sciences (PNAS)* **104**, 6112–6117 (2007).
- 78) **First to Market is not Everything: an Analysis of Preferential Attachment with Fitness** (with J.T. Chayes, C. Daskalakis and S. Roch). *Proceedings of the 39<sup>rd</sup> annual ACM Symposium on the Theory of Computing (STOC)*, 135–144 (2007).
- 79) **Dynamics of Bid Optimization in Online Advertisement Auctions** (with J.T. Chayes, O. Etesami, N. Immorlica and M. Mahdian). *Proceedings of the 16<sup>th</sup> International World Wide Web Conference*, 531–540 (2007).
- 80) **Local Computation of PageRank Contributions** (with R. Andersen, J.T. Chayes, J. Hopcroft, V. Mirrokni and S. Teng). *Proceedings of the 5<sup>th</sup> Workshop on Algorithms and Models for the Web Graph (WAW)*, 150–165 (2007).
- 81) **Robust PageRank and locally computable spam detection features** (with R. Andersen, J.T. Chayes, J.E. Hopcroft, K. Jain, V.S. Mirrokni, and S. Teng). *Proceedings of the 4<sup>th</sup> International Workshop on Adversarial Information Retrieval on the web (AIRWEB)*, 69–76 (2008).
- 82) **On the Stability of Web Crawling and Web Search** (with R. Andersen, J.T. Chayes, J.E. Hopcroft, V.S. Mirrokni, S. Teng). *Proceedings of the 19<sup>th</sup> International Symposium on Algorithms and Computation (ISAAC)*, 680–691 (2008).
- 83) **The Myth of the Folk Theorem** (with J.T. Chayes, N. Immorlica, A. Kalai, V. Mirrokni and C. Papadimitriou). *Proceedings of the 40<sup>th</sup> Annual ACM Symposium on the Theory of Computing (STOC)*, 365–372, (2008).

- 84) **Trust-Based Recommendation Systems: An Axiomatic Approach** (with R. Andersen, J.T. Chayes, U. Feige, A. Flaxman, A. Kalai, V. Mirrokni and M. Tennenholtz). *Proceedings of the 17<sup>th</sup> International World Wide Web Conference*, 199–208 (2008).
- 85) **Convergent Sequences of Dense Graphs I: Subgraph Frequencies, Metric Properties and Testing** (with J.T. Chayes, L. Lovasz, V. Sos, and K. Vesztergombi). *Adv. Math.* **219**, 1801–1851 (2008).
- 86) **Statistical Mechanics of Steiner Trees** (with M. Bayati, J.T. Chayes, R. Zecchina). *Phys. Rev. Lett.* **101**, 037208, 1–4 (2008).
- 87) **On the Exactness of the Cavity Method for Weighted b-Matching on Arbitrary Graphs and its Relation to Linear Programs** (with M. Bayati, J.T. Chayes, R. Zecchina). *J. Stat. Mech. (JSTAT)* **L06601**, 1–10 (2008)
- 88) **Proof of the Local REM Conjecture for Number Partitioning I: Constant Energy Scales** (with J.T. Chayes, S. Mertens and C. Nair). *Random Struct. Alg.* **34**, 217–240 (2009).
- 89) **Proof of the Local REM Conjecture for Number Partitioning II: Growing Energy Scales** (with J.T. Chayes, S. Mertens and C. Nair). *Random Struct. Alg.* **34**, 241–284 (2009).
- 90) **Percolation on Dense Graph Sequences** (with B. Bollobas, J.T. Chayes and O. Riordan). *Ann. Probab.* **38**, 150–183 (2010).
- 91) **Moments of Two-Variable Functions and the Uniqueness of Graph Limits** (with J.T. Chayes and L. Lovasz). *Geometric and Functional Analysis* **19**, 1597–1619 (2010).
- 92) **How to Distribute Antidote to Control Epidemics** (with J.T. Chayes, A. Ganesh, and A. Saberi). *Random Struct. Alg.* **37**, 204–222 (2010).
- 93) **A Novel Approach to Propagating Distrust** (with J.T. Chayes, A. Kalai, A. Malekiany, M. Tennenholtz). *Proceedings of the 6<sup>th</sup> International Workshop on Internet and Network Economics (WINE)*, 87–105 (2010).
- 94) **Game-Theoretic Models of Information Overload in Social Networks** (with J.T. Chayes, B. Karrer, B. Meeder, R. Ravi, R. Reagans and A. Sayedi). *Proceedings of the 7<sup>th</sup> Workshop on Algorithms and Models for the Web Graph (WAW)*, , 146–161 (2010).
- 95) **The Myth of the Folk Theorem** (invited journal version of publ. 82 above, with J.T. Chayes, N. Immorlica, A. Kalai, V. Mirrokni and C. Papadimitriou). *Games and Economic Behavior* **70**, 34–43 (2010).
- 96) **Belief-Propagation for Weighted b-Matchings on Arbitrary Graphs and its Relation to Linear Programs with Integer Solutions** (with M. Bayati, J.T. Chayes, R. Zecchina). *SIAM Journal of Discrete Mathematics* **25**, 989–1011 (2011).
- 97) **Limits of Randomly Grown Graph Sequences** (with J.T. Chayes, L. Lovasz, V. Sos, K. Vesztergombi). *Eur. J. Comb.* **32**, 985–999 (2011).
- 98) **Fast Convergence of Natural Bargaining Dynamics in Exchange Networks** (with Y. Kanoria, M. Bayati, J.T. Chayes, and A. Montanari). *Proceedings of the 22<sup>nd</sup> Annual ACM-SIAM Symposium on Discrete Algorithm (SODA)*, 1518–1537 (2011).

- 99) **The Hitchhiker's Guide to Affiliation Networks: A Game-Theoretic Approach** (with J.T. Chayes, J. Ding and B. Lucier). *Proceedings of the 2<sup>nd</sup> Symposium on Innovations in Computer Science (ICS)*, 389–400 (2011).
- 100) **Finding Undetected Protein Associations in Cell Signaling by Belief Propagation** (with M. Bailly-Bechet, A. Braunstein, J. Chayes, A. Dagkesamanskaia, J. Francois, and R. Zecchina). *Proceedings of the National Academy of Sciences (PNAS)* **108**, 882–887 (2011).
- 101) **We Know Who You Followed Last Summer: Inferring Social Link Creation Times in Twitter** (with B. Meeder, B. Karrer, A. Sayedi, R. Ravi and J.T. Chayes). *Proceedings of the 20<sup>th</sup> International World Wide Web Conference (WWW)*, 517–526 (2011).
- 102) **Tight Bounds for Mixing of the Swendsen-Wang Algorithm at the Potts Transition Point** (with J.T. Chayes and P. Tetali). *Probab. Theory Relat. Fields* **152**, 509 – 557 (2012).
- 103) **Convergent Sequences of Dense Graphs II: Multiway Cuts and Statistical Physics** (with J.T. Chayes, L. Lovasz, V. Sos, and K. Vesztergombi). *Ann. of Math.* **176**, 151 – 219 (2012).
- 104) **The Power of Local Information in Social Networks** (with M. Brautbar, J. Chayes, S. Khanna, B. Lucier). *Proceedings of the 8<sup>nd</sup> Workshop on Internet and Network Economics (WINE)*, 406 – 419 (2012).
- 105) **A Sublinear Time Algorithm for PageRank Computations** (with C. Borgs, M. Brautbar, J.T. Chayes, S.-H. Teng). *Proceedings of the 9<sup>th</sup> Workshop on Algorithms and Models for the Web Graph (WAW)*, 41 – 53 (2012).
- 106) **Pricing and Queueing** (with J.T. Chayes, S. Doroudi, M. Harchol-Balter, K. Xu). *SIGMETRICS Performance Evaluation Review* **40(3)**, 71 – 73 (2012).
- 107) **Simultaneous Reconstruction of Multiple Signaling Pathways via the Prize-Collecting Steiner Forest Problem** (N. Tuncbag, A. Braunstein, A. Pagnani, S.-S.C. Huang, J.T. Chayes, C. Borgs, R. Zecchina and E. Fraenkel). *Proceedings of the 16<sup>th</sup> Annual International Conference on Research in Computational Molecular Biology (RECOMB)*, 287–301 (2012) and *Journal of Computational Biology* **20(2)**, 124–136 (2013).
- 108) **Left and Right Convergence of Graphs with Bounded Degree** (with J.T. Chayes, J. Kahn, L. Lovasz). *Random Struct. Alg.* **42**, 1-28 (2013).
- 109) **Finding Endogenously Formed Communities** (with M.-F. Balcan, M. Braverman, J.T. Chayes and S.-H. Teng). In: *Proceedings of the 24<sup>nd</sup> Annual ACM-SIAM Symposium on Discrete Algorithm (SODA)*, 767 – 783 (2013).
- 110) **Asymptotic Behavior and Distributional Limits of Preferential Attachment Graphs** (with N. Berger, J.T. Chayes, A. Saberi). *Ann. Prob.* **42**, 1-40 (2014).
- 111) **Sharing Information to Reconstruct Patient-Specific Pathways in Heterogeneous Diseases** (A. Gitter, A. Braunstein, A. Pagnani, C. Baldassi, C. Borgs, J. Chayes, R. Zecchina, E. Fraenkel). In: *Proceedings of the Pacific Symposium on Biocomputing (PSB)*. 39–50 (2014).
- 112) **The Optimal Admission Threshold in Observable Queues with State Dependent Pricing** (with J.T. Chayes, S. Doroudi, M. Harchol-Balter, K. Xu). *Probability in the Engineering and Informational Sciences* **28**, 101-110 (2014).

- 113) **Maximizing Social Influence in Nearly Optimal Time** (with M. Brautbar, J. Chayes and B. Lucier). *Proceedings of the 25<sup>nd</sup> Annual ACM-SIAM Symposium on Discrete Algorithm (SODA)*, 946-957 (2014).
- 114) **Optimal Multi-Period Pricing with Service Guarantees** (with O. Can-dogan, J.T. Chayes, I. Lobel, and H. Nazerzadeh). *Management Science* **60**, 1792–1811 (2014).
- 115) **Bargaining dynamics in exchange networks** (with M. Bayati, J.T. Chayes, Y. Kanoria and A. Montanari). *J. Economic Theory*, **in press**. 38 pp (2014)
- 116) **Sublinear Time Algorithm for PageRank Computations and Related Applications** (with M. Brautbar, J.T. Chayes and S.-H. Teng). *Internet Mathematics* **10**, 20–48 (2014)

#### Preprints

- 117) **Convergent Sequences of Sparse Graphs: A Large Deviations Approach** (with J.T. Chayes and D. Gamarnik). Preprint (2013).
- 118) **An  $L^p$  Theory of Sparse Graph Convergence I: Limits, Sparse Random Graph Models, and Power Law Distributions** (with J. T. Chayes, H. Cohn and Y. Zhao). Preprint (2014).
- 119) **An  $L^p$  Theory of Sparse Graph Convergence II: LD Convergence, Quotients, and Right Convergence** (with J. T. Chayes, H. Cohn and Y. Zhao). Preprint (2014).
- 120) **Fixed Points of Social Choice: An Axiomatic Approach to Network Communities** (wiht J.T. Chayes, A. Marple and S.-H. Teng). Preprint (2014).