

## Preprints

**Peter Ayre, Amin Coja-Oghlan, Catherine Greenhill:** [Hypergraph coloring up to condensation.](#)

**Amin Coja-Oghlan, Oliver Cooley, Mihyun Kang, Kathrin Skubch:** [Core forging and local limit theorems for the  \$k\$ -core of random graphs.](#)

**Amin Coja-Oghlan, Will Perkins:** [Bethe states of random factor graphs.](#)

**Amin Coja-Oghlan, Nick Wormald:** [The number of satisfying assignments of random regular  \$k\$ -SAT formulas.](#)

## 2017

**Victor Bapst, Amin Coja-Oghlan, Charilaos Efthymiou:** [Planting colourings silently.](#) *Combinatorics, Probability and Computing* 26:338-366.

**Amin Coja-Oghlan:** [Belief Propagation fails on random formulas.](#) *Journal of the ACM* 63:#49.

**Amin Coja-Oghlan, Oliver Cooley, Mihyun Kang, Kathrin Skubch:** [How does the core sit inside the mantle?](#) *Random Structures and Algorithms* 51:459-482.

**Amin Coja-Oghlan, Oliver Cooley, Mihyun Kang, Kathrin Skubch:** [The minimum bisection in the planted bisection model](#) *Theory of Computing* 13:8.

**Amin Coja-Oghlan, Charilaos Efthymiou, Nor Jaafari, Mihyun Kang, Tobias Kapetanopoulos:** [Charting the replica symmetric phase.](#) *Proc. 21st RANDOM* 40:1-17.

**Amin Coja-Oghlan, Amir Haqshenas, Samuel Hetterich:** [Walksat stalls well below the satisfiability threshold.](#) *SIAM Journal on Discrete Mathematics* 31:1160-1173.

**Amin Coja-Oghlan, Florent Krzakala, Will Perkins, Lenka Zdeborova:** [Information-theoretic thresholds from the cavity method.](#) *Proc. 48th STOC*, 146-157.

**Amin Coja-Oghlan, Will Perkins, Kathrin Skubch:** [Limits of discrete distributions and Gibbs measures on random graphs.](#) *European Journal of Combinatorics* 66:37-59.

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**Victor Bapst, Amin Coja-Oghlan:** [Harnessing the Bethe free energy.](#) *Random Structures and Algorithms* 49:694-741.

**Victor Bapst, Amin Coja-Oghlan:** [The condensation phase transition in the regular  \$k\$ -SAT model.](#) *Proc. 20th RANDOM* 22:1-18.

**Victor Bapst, Amin Coja-Oghlan, Felicia Rassmann:** [A positive temperature phase transition in random hypergraph 2-coloring.](#) *Annals of Applied Probability* 26:1362-1406.

**Victor Bapst, Amin Coja-Oghlan, Samuel Hetterich, Felicia Rassmann, Dan Vilenchik:** [The condensation phase transition in random graph coloring.](#) *Communications in Mathematical Physics* 341:543-606.

**Amin Coja-Oghlan, Charilaos Efthymiou, Samuel Hetterich:** [On the chromatic number of random regular graphs.](#) *Journal of Combinatorial Theory, Series B* 116:367-439.

**Amin Coja-Oghlan, Nor Jaafari:** [On the Potts antiferromagnet on random graphs.](#) *Electronic Journal of Combinatorics* 23:P4.3.

**Amin Coja-Oghlan, Konstantinos Panagiotou:** [The asymptotic  \$k\$ -SAT threshold.](#) *Advances in Mathematics* 288:985-1068.

**Amin Coja-Oghlan, Will Perkins:** [Belief Propagation on replica symmetric random factor graph models.](#) *Proc. 20th RANDOM* 27:1-15.

**Amin Coja-Oghlan, Dan Vilenchik:** [The chromatic number of random graphs for most average degrees.](#) *International Mathematics Research Notices* 2016:5801-5859.

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**Amin Coja-Oghlan, Oliver Cooley, Mihyun Kang, Kathrin Skubch:** [The minimum bisection in the planted bisection model.](#) *Proc. 19th RANDOM*, 710-725.

**Amin Coja-Oghlan, Charilaos Efthymiou:** [On independent sets in random graphs.](#) *Random Structures and Algorithms* 47:436-486.

**Amin Coja-Oghlan, Charilaos Efthymiou, Nor Jaafari:** [Local convergence of random graph colorings.](#) *Proc. 19th RANDOM*, 726-737.

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**Victor Bapst, Amin Coja-Oghlan, Samuel Hetterich, Felicia Rassmann, Dan Vilenchik:** [The condensation phase transition in random graph coloring](#). Proc. 18th RANDOM, 449-464.

**Michael Behrisch, Amin Coja-Oghlan, Mihyun Kang:** [Local limit theorems for the giant component of random hypergraphs](#). Combinatorics, Probability and Computing 23:331-366.

**Michael Behrisch, Amin Coja-Oghlan, Mihyun Kang:** [The asymptotic number of connected d-uniform hypergraphs](#). Combinatorics, Probability and Computing 23:367-385.

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**Amin Coja-Oghlan, Angelica Y. Pachon-Pinzon:** [The decimation process in random k-SAT](#). SIAM Journal on Discrete Mathematics 26:1471-1509.

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