Publication list

PUBLISHED

1 **Subcritical phase of d-dimensional Poisson-Boolean percolation and its vacant set** (2020)
H. Duminil-Copin, A. Raoufi, V. Tassion
Annales Henri Lebesgue, vol. 3, pp. 677–700.

2 **Long monotone trails in random edge-labelings of random graphs** (2020)
O. Angel, A. Ferber, B. Sudakov, V. Tassion
Combinatorics, Probability and Computing, vol. 29, no. 1, pp. 22–30.

3 **Emergent planarity in two-dimensional Ising models with finite-range interactions** (2019)
M. Aizenman, H. Duminil-Copin, V. Tassion, S. Warzel
Inventiones Mathematicae, vol. 216 no. 3, pp. 661–743.

4 **Exponential decay of connection probabilities for subcritical Voronoi percolation in $\mathbb{R}^d$** (2019)
H. Duminil-Copin, A. Raoufi, V. Tassion
Probability Theory and Related Fields, vol. 173 no. 1-2, pp. 479–490.

5 **Sharp phase transition for the random-cluster and Potts models via decision trees** (2019)
H. Duminil-Copin, A. Raoufi, V. Tassion
Annals of Mathematics, vol. 189 no. 2, pp. 75–99.

6 **A note on Schramm's locality conjecture for random-cluster models** (2019)
H. Duminil-Copin, V. Tassion
Sojourns in Probability Theory and Statistical Physics - II Brownian Web and Percolation, A Festschrift for Charles M. Newman, pp. 123–134.

7 **Existence of an unbounded vacant set for subcritical continuum percolation** (2018)
D. Albergh, A. Teixeira, V. Tassion
Electronic Communications in Probability, vol. 23, paper no. 63, 8pp.

8 **Sharpness of the phase transition for continuum percolation in $\mathbb{R}^2$** (2018)
D. Ahlbergh, A. Teixeira, V. Tassion
Probability Theory and Related Fields, vol.172 no. 1-2, pp. 525–581.

9 **The box-crossing property for critical two-dimensional oriented percolation** (2018)
H. Duminil-Copin, A. Teixeira, V. Tassion
Probability Theory and Related Fields, vol. 171 no. 3–4, pp. 685–708 .

10 **The Bethe Ansatz for the six-vertex and XXZ models: an exposition** (2018)
H. Duminil-Copin, M. Gagnebin, M. Harel, I. Manolescu, V. Tassion
Probability Surveys, vol. 15, pp. 102-130.

11 **A new computation of the critical point for the planar random-cluster model with $q \geq 1$** (2018)
H. Duminil-Copin, A. Raoufi, V. Tassion
Annales de l'institut Henri Poincaré, vol. 54, no.1, 422-436.

12 **Critical Percolation and the Minimal Spanning Tree in Slabs** (2017)
C.M. Newman, V. Tassion, W. Wu
Communications in Pure and Applied Mathematics. vol. 70, pp. 2084-2120.

13 **Homogenization via sprinkling** (2017)
I. Benjamini, V. Tassion
Annales de l'institut Henri Poincaré, vol. 53, no. 2, pp. 997-1005.

14 **Continuity of the phase transition for planar Potts models with $1 \leq q \leq 4$** (2017)
H. Duminil-Copin, V. Sidoravicius, V. Tassion
Communications in Mathematical Physics, vol. 349, no. 1, pp. 47-107.

15 **Locality of percolation for Abelian Cayley graphs** (2017)
S. Martineau, V. Tassion
Annals of Probability, vol. 45, no. 2, pp. 1247-1277.

16 **A new proof of the sharpness of the phase transition for Bernoulli percolation on $\mathbb{Z}^d$** (2016)
H. Duminil-Copin, V. Tassion
L'enseignement mathématique, vol. 62, no. 1-2, pp. 199-206.

17 **Crossing probabilities for Voronoi percolation** (2016)
V. Tassion
Annals of Probability. vol. 44, no. 5, pp. 385-3398.

18 **Absence of percolation for critical Bernoulli percolation on slabs** (2016)
H. Duminil-Copin, V. Sidoravicius, V. Tassion
Communications in Pure and Applied Mathematics. vol. 69, no. 7, pp. 1739-1411.

19 **A new proof of the sharpness of the phase transition for Bernoulli percolation and the Ising model** (2016)
H. Duminil-Copin, V. Tassion
Communications in Mathematical Physics, vol. 343, no. 2, pp. 725-745.

20 **Quenched Voronoi percolation** (2016)
D. Ahlberg, S. Griffiths, R. Morris, V. Tassion
Advances in Mathematics, vol. 286, pp. 889-911.

21 **On the critical value function in the Divide and Color model** (2013)
A. Bálint, V. Beffara, V. Tassion
Latin American Journal of Probability, vol. X, pp. 653-666.

22 **Confidence intervals for critical value function in the Divide and Color model** (2013)
A. Bálint, V. Beffara, V. Tassion
Latin American Journal of Probability, vol. X, pp. 667-679.

ACCEPTED

23 **Upper bounds on the correlation length of Bernoulli percolation on $\mathbb{Z}^d$**
H. Duminil-Copin, G. Kozma, V. Tassion
To appear in *Special volume in honor of Vladas Sidoravicius*.

24 **Renormalization of crossing probabilities in the planar random-cluster model**
H. Duminil-Copin, V. Tassion
To appear in *Dobrushin's volume of Moscow Mathematical Journal*.

25 **Discontinuity of the phase transition for the planar random-cluster and Potts models with $q>4$**
H. Duminil-Copin, M. Gagnebin, M. Harel, I. Manolescu
To appear in *Annales de l'École Normale Supérieure*.

PROCEEDINGS

26 **RSW and Box-Crossing Property for planar percolation** (2015)
V. Tassion, H. Duminil-Copin
Proceedings of the International Congress of Mathematical Physics, vol. 73.

PREPRINTS

27 **Crossing probabilities for planar percolation**
L. Köhler-Schindler, V. Tassion
arXiv:2011.04618.

28 **Noise sensitivity via differential inequalities**
V. Tassion, H. Vanneuville
arXiv:2011.04572.

29 **Long-range order for critical book-Ising and book-percolation**
H. Duminil-Copin, C. Garban, V. Tassion
arXiv:2011.04644.

30 **Long-range models in 1D revisited**
H. Duminil-Copin, C. Garban, V. Tassion
arXiv:2011.04642.

31 **Planar random-cluster model: fractal properties of the critical phase**
H. Duminil-Copin, I. Manolescu and V. Tassion
arXiv:2007.14707.

32 **No exceptional words for Bernoulli percolation**
P. Nolin, V. Tassion, A. Teixeira
arXiv:1911.04816.

UNPUBLISHED WORK

33 **A universal behavior in DaC-percolation**
V. Tassion
Available as Chapter 3 of PhD thesis *Planarity and locality in percolation theory*.

IN PREPARATION

34 **Supercritical percolation on graphs of polynomial growth**
D. Contreras, S. Martineau, V. Tassion

35 **Locality for percolation on graphs of polynomial growth**
D. Contreras, S. Martineau, V. Tassion

36 **A new renormalization approach to Grimmett-Marstrand Theorem**
D. Contreras, V. Tassion

BOOK PROJECT

37 **Ising Model**
H. Duminil-Copin, I. Manolescu, V. Tassion