

Some comments

Le Chen

September 3, 2025

Dear all,

Start here.

[FV85] [KPZ86] [BS95] [Zha+92] [Tak+11]

Paper inking: [BS95] (the book)

Paper burning: [Zha+92]

LIS: [BDJ99]

KPZ: [KPZ86]

Regularity structures: [Hai14]

Solving KPZ: [Hai13]

Best regards,

Le

References

- [FV85] Fereydoon Family and Tamás Vicsek. “Scaling of the active zone in the Eden process on percolation networks and the ballistic deposition model”. In: *Journal of Physics A: Mathematical and General* 18.2 (1985), p. L75.
- [KPZ86] Mehran Kardar, Giorgio Parisi, and Yi-Cheng Zhang. “Dynamic scaling of growing interfaces”. In: *Phys. Rev. Lett.* 56.9 (1986), p. 889.
- [Zha+92] Jun Zhang, Y.-C. Zhang, P. Alstrøm, and M.T. Levinsen. “Modeling forest fire by a paper-burning experiment, a realization of the interface growth mechanism”. In: *Phys. A: Stat. Mech. Appl.* 189.3 (1992), pp. 383–389.
- [BS95] Albert-László Barabási and H. Eugene Stanley. *Fractal concepts in surface growth*. Cambridge University Press, Cambridge, 1995, pp. xx+366. ISBN: 0-521-48318-2.
- [BDJ99] Jinho Baik, Percy Deift, and Kurt Johansson. “On the distribution of the length of the longest increasing subsequence of random permutations”. In: *J. Amer. Math. Soc.* 12.4 (1999), pp. 1119–1178.

- [Tak+11] Kazumasa A Takeuchi, Masaki Sano, Tomohiro Sasamoto, and Herbert Spohn. “Growing interfaces uncover universal fluctuations behind scale invariance”. In: *Sci. Rep.* 1.1 (2011), pp. 1–5.
- [Hai13] Martin Hairer. “Solving the KPZ equation”. In: *Ann. of Math. (2)* 178.2 (2013), pp. 559–664.
- [Hai14] M. Hairer. “A theory of regularity structures”. In: *Invent. Math.* 198.2 (2014), pp. 269–504.