Suggested readings: jamming, or the SAT-UNSAT transition for continuous variables

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I. CLASSIC PAPERS ON JAMMING

- Bernal [1, 2]
- Liu-Nagel [3]
- Reviews: [4–7] (note: all appeared in 2010!)
- Wyart et al. on marginal stability [8–11]
- Infinite-dimensional theory [12–14]
- Precision measurement of jamming exponents [15, 16]

II. SAT-UNSAT TRANSITION IN CONTINUOUS PROBLEMS

- Gardner's capacity calculation [17–19]
- Link to the jamming transition [20–23]
- Hypostatic fullRSB jamming [24] (and references therein)
- [1] J. Bernal and J. Mason, Nature 188, 910 (1960).
- [2] J. Bernal, J. Mason, and K. Knight, Nature **194**, 957 (1962).
- [3] A. J. Liu and S. R. Nagel, Nature **396**, 21 (1998).
- [4] G. Parisi and F. Zamponi, Rev. Mod. Phys. 82, 789 (2010).
- [5] A. Liu, S. Nagel, W. Van Saarloos, and M. Wyart, in *Dynamical Heterogeneities and Glasses*, edited by L. Berthier, G. Biroli, J.-P. Bouchaud, L. Cipelletti, and W. van Saarloos (Oxford University Press, 2011), arXiv:1006.2365.
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- [8] M. Wyart, S. Nagel, and T. Witten, Europhysics Letters 72, 486 (2005).
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- [10] E. DeGiuli, A. Laversanne-Finot, G. Düring, E. Lerner, and M. Wyart, Soft Matter 10, 5628 (2014).
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- [12] P. Charbonneau, J. Kurchan, G. Parisi, P. Urbani, and F. Zamponi, J. Stat. Mech.: Theor. Exp. 2014, P10009 (2014).
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- [21] S. Franz, G. Parisi, P. Urbani, and F. Zamponi, Proceedings of the National Academy of Sciences 112, 14539 (2015).
- [22] A. Altieri, S. Franz, and G. Parisi, Journal of Statistical Mechanics: Theory and Experiment 2016, 093301 (2016).
- [23] S. Franz, G. Parisi, M. Sevelev, P. Urbani, F. Zamponi, and M. Sevelev, SciPost Physics 2, 019 (2017).
- [24] C. Brito, H. Ikeda, P. Urbani, M. Wyart, and F. Zamponi, arXiv:1807.01975 (2018).