

The contact process as seen from a random walk

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This poster is based on a work of A.S. Belthuesen about a random walk on top of the contact process on Z^d [1]. Under the assumption that the infection rate of the contact process is large or the jump rate of the random walk is small, we show a complete convergence-type theorem for the contact process as seen from the random walk. In particular, we show that this process has at most two extremal measures. As a consequence, we deduce a law of large numbers for the random walk itself.

References

- [1] STEIN ANDREAS BETHUELSEN , *The contact process as seen from a random walk* , Arxiv 2016.