Graduation Project

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- 1 Introduction
- 2 Kahn-Kalai Conjecture

2.1 Thresholds

Let $n \in \mathbb{N}$ and $0 \le p \le 1$. The random graph G(n, p) is a probability space over the set of graphs on n labeled vertices determined by

$$\Pr[\{i,j\} \in G] = p$$

with these events mutually independent [1] Given a graph theoretic property A, there is a probability that G(n,p) satisfies A, which we write as $\Pr[G(n,p) \models A]$. This is a test. try this out.

- 2.1.1 Threshold function for an isolated vertex
- 2.2
- 3 Numerical Semigroups
- 4 Probabilistic Models on Numerical Semigroups
- 5 Expected Frobenious Number

References

[1] N. Alon and J. H. Spencer, The probabilistic method. John Wiley & Sons, 2016.