

Talk 3: Erdős-Rényi random graphs: sharp threshold for connectivity

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Reference material

[Cur]: Section 5.1

Goal

The goal is to introduce the model of Erdős-Rényi random graphs and to establish a sharp threshold for the connectivity property.

Content

- Definition of a Erdős-Rényi random graph (Definition 4.7)
- Definition of a sharp threshold (Definition 5.1)
- Sharp threshold for isolated vertices (Proposition 5.1)
- Sharp threshold for connectivity (Theorem 5.2)

References

[Cur] Nicolas Curien. A random walk among random graphs (lecture notes). <https://www.dropbox.com/scl/fi/xgb6yed67rzwynauuagy/cours-GA-online.pdf?rlkey=e10jhac0y9s49ly331il4ydjq&dl=0>.