

Component sizes of the random graph outside the scaling window

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Abstract

We provide simple proofs describing the behavior of the largest component of the Erdős-Rényi random graph $G(n, p)$ outside of the scaling window, $p = \frac{1+\epsilon(n)}{n}$ where $\epsilon(n) \rightarrow 0$ but $\epsilon(n)n^{1/3} \rightarrow \infty$.