Colloquium

KLR conjecture in Sparse Random Graphs

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Abstract: The KLR conjecture of Kohayakawa, Luczak, and Rdl is a statement that allows one to prove that asymptotically almost surely all subgraphs of the random graph $G(n,p)$ satisfy an embedding lemma which complements the sparse regularity lemma of Kohayakawa and Rdl. We prove a variant of this conjecture which is sufficient for most applications to random graphs. In particular, our result implies a number of recent probabilistic threshold results. We also discuss several further applications. This joint work with Conlon, Gowers, and Samotij.

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