

Applications of sublinear expanders

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Abstract:

We will introduce the sublinear expander and cover some applications of sublinear expander. We prove that for any bipartite graph H , every H -free graph G with average degree d contains a clique immersion of order $(1-o(1))d$, implying that Lescure and Meyniel's conjecture holds asymptotically for graphs without fixed bipartite graph. We also mention the existence of cycles in hypercubes.