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Some recent evidence for the Erdos-Hajnal Conjecture

The Erdos Hajnal conjecture states that for every graph H, there is an $\epsilon > 0$ such that EVERY graph G which does not contain H as an induced subgraph has a clique or a stable set of size at least $|V(G)|^{\epsilon}$. We prove the wekaening of this conjecture obtained by replacing EVERY by ALMOST EVERY and discuss the value of ϵ for various H. This is joint work with Frederic Havet, Ross Kang, Colin McDiarmid, Alex Scott, Stephan Thomasse, and Andrew Thomason.