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 weakening of this conjecture obtained by replacing EVERY by ALMOST EVERY and discuss the value of $\epsilon$ for various $H$. This is joint work with Frederic Havet, Ross Kang, Colin McDiarmid, Alex Scott, Stephan Thomasse, and Andrew Thomason.