

COMBINATORICS
SEMINAR

Homomorphism threshold for graphs

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Abstract: The interplay of minimum degree and 'structural properties' of large graphs with a given forbidden subgraph is a central topic in extremal graph theory. For a given graph F we define the homomorphism threshold as the infimum α such that every n -vertex F -free graph G with minimum degree greater than αn has a homomorphic image H of bounded size (independent of n), which is F -free as well. Without the restriction of H being F -free we recover the definition of the chromatic threshold, which was determined for every graph F by Allen et al. The homomorphism threshold is less understood and we present recent joint work with O. Ebsen on the homomorphism threshold for odd cycles.

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