

abstract

COMPUTER SCIENCE AND DISCRETE MATHEMATICS SEMINAR I

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

Let H be a fixed graph with h vertices. The graph removal lemma states that every graph on n vertices with $o(n^h)$ copies of H can be made H -free by removing $o(n^2)$ edges. We give a new proof which avoids Szemerédi's regularity lemma and gives a better bound. This approach also works to give improved bounds for the directed and multicolored analogues of the graph removal lemma. This answers questions of Alon and Gowers.