

The extremal function for K_9 minors

ZIXIA SONG

School of Mathematics
Georgia Institute of Technology
song@math.gatech.edu

Abstract. A graph H is a minor of a graph G if H can be obtained from a subgraph of G by contracting edges. We prove that every simple graph on n vertices and at least $7n - 27$ edges either has a K_9 minor, or is isomorphic to $K_{2,2,2,3,3}$, or is isomorphic to a graph obtained from disjoint copies of $K_{1,2,2,2,2}$ by identifying cliques of size six.