

1162-05-87

Michael Tait*, michael.tait@villanova.edu. *A meta-conjecture in extremal spectral graph theory.*

Let $ex(n, F)$ be the maximum number of edges in an F -free graph on n vertices and $spx(n, F)$ be the maximum spectral radius (of the adjacency matrix) of an F -free graph on n vertices. In this talk we discuss a conjecture regarding for which graphs F the extremal graphs for these two problems are the same. This is motivated by a recent theorem of ours which determines $spx(n, F)$ when F is a friendship graph. This is joint work with Sebi Cioaba, Lihua Feng, and Xiao-Dong Zhang (Received August 25, 2020)