

1135-13-2683

Nursel Erey* (nursel.erey@ndsu.edu). *Powers of ideals associated to graphs.*

Let G be a finite simple graph with vertex set $V(G) = \{x_1, \dots, x_n\}$. Let k be a field. The edge ideal $I(G) \subseteq k[x_1, \dots, x_n]$ of G is generated by the monomials $x_i x_j$ such that x_i is adjacent to x_j in G . In this talk we will discuss some questions and results regarding the minimal free resolutions of powers of $I(G)$. (Received September 26, 2017)