



ALGEBRA SEMINAR

Powers of edge ideals and matchings in graphs

By

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Abstract: Let G be a finite simple graph. The edge ideal of G , denoted by $I(G)$, is generated by the quadratic monomials corresponding to the edges of G . Computation of Castelnuovo-Mumford regularity of powers of $I(G)$ is a challenging problem. I will explain how this problem connects to matchings in graphs. I will also talk about recent work on squarefree powers of edge ideals.

Date: 5 November 2020

Time: 15:00

Place: ZOOM. To request the event link, please send a message to sezer@fen.bilkent.edu.tr