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Nursel Erey* (nurselerey@gtu.edu.tr), **Jürgen Herzog**, **Takayuki Hibi** and **Sara Saeedi Madani**. *Squarefree powers of edge ideals.*

Let G be a graph with edge ideal $I(G)$. The k th squarefree power of $I(G)$ is generated by the monomials of the form $\prod_{e \in M} e$ where M is a matching in G of size k . In this talk, we will give some bounds for the regularity of squarefree powers of edge ideals. We will also discuss the question of when such powers are linearly related or have linear resolution. (Received July 23, 2020)