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Huy Tai Ha, Selvi Kara and Augustine O’Keefe* (aokeefe@comncoll.edu). *Algebraic properties of toric rings of graphs.*

Let $G = (V, E)$ be a simple graph. We investigate the Cohen-Macaulayness and algebraic invariants, such as the Castelnuovo-Mumford regularity and the projective dimension, of the toric ring $k[G]$ via those of toric rings associated to induced subgraphs of G . (Received January 22, 2018)