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*Bounds on the regularity of toric ideals of graphs.*

Let  $G$  be a finite simple graph. We give a lower bound for the Castelnuovo-Mumford regularity of the toric ideal  $I_G$  associated to  $G$  in terms of the sizes and number of induced complete bipartite graphs in  $G$ . When  $G$  is a chordal bipartite graph, we find an upper bound for the regularity of  $I_G$  in terms of the size of the bipartition of  $G$ . (Received July 17, 2017)