1120-13-244Jennifer Biermann* (jbierman@mtholyoke.edu), Augustine O'Keefe and Adam Van Tuyl.A lower bound on the regularity of toric ideals of graphs. Preliminary report.

Let G be a finite simple graph. We find a lower bound for the Castelnuovo-Mumford regularity for the toric ideal I_G associated to G in terms of the sizes and number of induced complete bipartite graphs in G. (Received February 22, 2016)