Barbara M Anthony* (anthonyb@southwestern.edu), 1001 E. University Ave, Georgetown, TX 78626, and Michael E. Picollelli. Complete r-partite graphs determined by their domination polynomial.

The domination polynomial of a graph is the polynomial whose coefficients count the number of dominating sets of each cardinality. A recent question asks which graphs are uniquely determined (up to isomorphism) by their domination polynomial. In this work, we completely describe the complete r-partite graphs which are; in the bipartite case, this settles in the affirmative a conjecture of Aalipour, Akbari and Ebrahimi. (Received September 05, 2014)