

1135-05-1957 **Marie Meyer*** (marie.meyer@uky.edu) and **Benjamin Braun**. *Laplacian Simplices*.

There are many advantageous ways to associate a polytope to a graph G . A recent construction is to consider the convex hull of the rows of the Laplacian matrix of G to form what is called the Laplacian simplex, T_G . In this talk we focus on properties of T_G including reflexivity, the integer decomposition property, and unimodality of Ehrhart h^* -vectors according to graph type. (Received September 25, 2017)