1171-05-198   **Esther M Banaian***, banai003@umn.edu, and **Sunita Chepuri**, **Elizabeth Kelley** and **Sylvester Zhang**. *Rooted Clusters for Graph LP Algebras.*

LP algebras, introduced by Lam and Pylyavskyy, are a generalization of cluster algebras. These algebras are known to have the Laurent phenomenon, but positivity remains conjectural. Graph LP algebras are finite LP algebras encoded by a graph. We present a proof of positivity for a set of clusters, "rooted clusters" in a graph LP algebra as well as give a combinatorial interpretation of the expansion of elements in these clusters. (Received August 10, 2021)