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Robert Krone* (rckrone@ucdavis.edu). *Phylogenetic cycle network model dimensions.*

Group-based phylogenetic networks are a family of statistical models describing the evolutionary history of a set of related species. Correctly distinguishing the network structure requires understanding the geometry of these models. We describe the dimensions for most cycle networks and group structures, using tropical geometry. This dimension information allows us to classify which of these network features are identifiable and which are not, building off of the previous work of Gross and Long. (Received March 03, 2020)