1154-15-409 **Shaun Fallat*** (shaun.fallat@uregina.ca), Department of Mathematics and Statistics, University of Regina, Regina, Sask. s4s0a2, Canada, and **Mohammad Adm** (mjamathe@yahoo.com), Department of Applied Mathematics and Physics, Palestine Polytechnic University, Hebron. *On the maximum multiplicity of the kth largest eigenvalue of a tree.*

Given a graph G, we are interested in studying the maximum nullity over all real symmetric matrices $S(G)$ with a fixed number of negative eigenvalues. For the case of trees we re-derive a formula for this maximum nullity and completely describe its behaviour as a function of the number of negative eigenvalues. Using this analysis, we revisit some work on describing all partial inertias associated with trees and review an instance of the inverse eigenvalue problem for some special trees. (Received September 03, 2019)