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Mary Radcliffe* (radcliffe@math.washington.edu). *Nonlinear eigenvalues of graphs.*

Abstract: From a geometrical perspective, one can view the first eigenvalue of graph as a measure of the distortion obtained when embedding a graph into \mathbb{R} . This measurement can be generalized by embedding the graph into an arbitrary metric space X . We here discuss some structural results using this nonlinear eigenvalue generalization when X is itself a graph. (Received September 11, 2014)