

1135-05-3050 **Paul K Horn*** (paul.horn@du.edu). *Graph curvature and the geometry and eigenvalues of graphs.*

In this talk, I'll discuss some recent works about notions of graph curvature and how they can be used to extract information about geometrical properties of graphs. We'll discuss, in particular, some ways that graph curvature notions can be used to understand mixing of random walks on graphs as well as Laplacian eigenvalues of graphs. (Received September 26, 2017)