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**Ghanshyam Bhatt\*** (gbhatt@tnstate.edu), Nashville, TN 37209. *Bases, frames and associated operators from graphs and vertices.*

Bases are sometimes inadequate for some desired applications like signal processing. Frames are linearly dependent spanning sets, so they are generalization of basis. The graphs with  $n$  vertices can provide some nice frames in  $R^n$ . In this talk we will discuss some of the properties of frames and their connections with the vertices of a graph. (Received September 15, 2014)