1146-15-371   **Shahla Nasserasr*** (`nasserasrs@brandonu.ca`), Department of Mathematics, and Computer
Science, Brandon, MB R7A 6A9, Canada. *Spectrum of the weighted adjacency matrices of a graph.*

Let $S(G)$ be the set of all real symmetric matrices such that their off-diagonal entries are nonzero if and only if the corresponding vertices in the graph G are connected by an edge. In this talk, we will focus on the eigenvalues of these matrices. In particular, we are interested in $q(G)$, the minimum number of distinct eigenvalues of a matrix in $S(G)$. We will survey some results about the parameter $q(G)$. (Received January 27, 2019)