A graph is a combinatorical object consisting of a finite set of vertices and edges, which connect vertices. Graphs can be represented as matrices, therefore, we can use various tools of algebra. The eigenvalues of a graph are the eigenvalues of a representing matrix and the spectrum of a graph is the set of its eigenvalues. Several graph properties can be easily described by its eigenvalues.

In this talk, a very short introduction to spectral graph theory is given and some results on the spectra of graphs are presented.