

## **GRAPHS THAT ARE DETERMINED BY THEIR SPECTRA**

Avraham (Avi) Berman

Spectral graph theory studies the relation between a graph and the eigenvalues of matrices associated with it (adjacency, Laplacian, signed Laplacian or normalized Laplacian).

In the project we will search for co-spectral graphs, i.e. non isomorphic graphs that have the same eigenvalues, and for graphs that are determined by their spectra.