

## Math 420, Spring 2020 Seventh Team Homework

Implement the six community discovery algorithms (partition algorithms) and run them on your project data set.

Specifically, implement:

1. Spectral methods using:  $W$ ,  $\Delta$ , and  $\tilde{\Delta}$
2. SDP relaxation algorithms using:  $W$ ,  $\Delta$ , and  $\tilde{\Delta}$

Then run the algorithms on the data set assigned to your project.