

Course project
"Optimization approaches to community detection"

Marina Danilova, Alexander Podkopaev, Nikita Puchkin, Igor Silin

December 14, 2016

1 Introduction

2 Stochastic block model

3 Algorithms

3.1 Semidefinite relaxations

3.2 Conjugate gradients method

3.3 Modularity-based methods

3.4 Spectral method

4 Data

5 Experimental results

6 References

- [1] A low-rank approach to the computation of path integrals. M.S. Litsarev, I.V. Oseledets, 2015.
- [2] Karl Sigman notes, 2006.