

Lecture 13

An approximation algorithm for Quantum MAXCUT

There was no scribe this week. We first reviewed semidefinite programming, and then used it to obtain a 0.498 factor approximation algorithm for the Quantum MAXCUT problem introduced in the first lecture. We largely followed the presentation in [GP19] (see Section 4; in their notation, quantum MAXCUT is the case where $\alpha = \beta = \gamma = 1$).