Weekly Report 8

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# What I did

* I tried fixing my SDP max cut code. The problem is in Cholesky decomposition. doesn’t return the original matrix. In this screenshot of my terminal, is the optimized positive semidefinite matrix, is the permutation matrix after doing Cholesky decomposition, and are the lower and upper matrices, respectively, after Cholesky decomposition.

Table

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is indeed symmetric and Hermitian:

Graphical user interface, text, application, email

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But it’s not positive semidefinite, as some of its eigenvalues are (very slightly) negative:

Text

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# Questions

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# What I will do next week

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