Project Papers: The final project in this class is due on May 12, 2006, and represents 40% of your grade. The project should not be a survey or review of a topic. It should build on one of the subjects you learned about in class, and focus on defining a new problem and taking steps towards solving it. Each paper should be at most 12 pages of double-spaced, Phys. Rev. A ReSTeX submission format text, with a proper abstract, introduction, discussion, conclusion, and full references. Handwritten papers are not suitable; final papers should be submitted by e-mail in E\TeX, postscript, or pdf format.

This project proposal form is required in advance, and is due April 20. It will help you get started on your project; email your submissions to: ichuang@mit.edu and shor@math.mit.edu.

Your assignment:

P1: (Project abstract) Write a ≤ 500 word abstract describing your project. Include a brief summary of the background behind your project, previous related work, what your open question addresses, and why it is interesting.

P2: (References) Provide a list of full citations (in Phys. Rev. A or BiBTeX format) for references in the literature which you will read for your project. Include not just textbooks, but also research papers.

Sample topics: See https://scripts-cert.mit.edu/~ichuang/wiki8371/