

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Department of Physics, EECS, and Department of Applied Math
MIT 6.443J / 8.371J / 18.409 / MAS.865
Quantum Information Science

April 8, 2006

Project Proposal Form
(due in class, 15-Apr-06)

Project Papers: The final project in this class is due on May 15, 2008, 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 ReVTeX 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 pdf format.

This project proposal form is required in advance, and is due April 15. It will help you get started on your project; email your submissions to: ichuang@mit.edu and shor@math.mit.edu.

Projects will also be presented in class, in short ~ 20 minute talks, on May 6 through 13. A signup form for these dates will be posted to the class wiki.

NO EXTENSIONS CAN BE GRANTED ON PROJECT PAPERS

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/>