Physics 221A
Fall 2010
Homework 6
Due Friday, October 8, 2010 at 5pm

Reading Assignment: Notes 8, pp. 15–17, Notes 9, pp. 1–24. In *Modern Quantum Mechanics* (second edition), the relevant pages are 116–129.

I have also added two reprints. One is "I can do that for you!" which is Feynman's own account of the time when he was using path integrals to carry out covariant calculations in QED, while everyone else was using noncovariant, old-fashioned perturbation theory. The second is the first chapter of Feynman and Hibbs, which covers many bases, including the basic idea of the path integral. I know you have a lot to do, but this chapter is worth the time.

Reminder: There will be no class next Wednesday or Friday, October 6 or 8. There will, however, be a makeup lecture on Tuesday evening, October 5, 7-8pm, in 325 LeConte (the usual room). Since the doors to LeConte are locked in the evening, please come to the west door of LeConte at 7pm and I will let you in. Don't be late, or you may not be able to get in.

Please do problems 9.1, 9.2, 9.3.