

Homework 1

Due at the beginning of class Aug. 26

From Shankar: Exercises 1.1.4, 1.1.5, 1.6.1, 1.6.2 (are the new operators Hermitian, anti-Hermitian, or neither?), 1.6.4, and 1.6.6

Extra credit: Tell me what physics is wrong on the pages posted on my office door and support your claim. (HINT: There *is* something wrong that you should be able to identify.)

Guidelines for homework

- Discuss your homework with classmates as much as you like, but *write your homework solutions on your own!* There will be a severe grade penalty for copying.
- As a scientist in training, you need to learn to communicate scientific information in an effective, efficient manner. You should consider homework assignments as practice in this art. It is your responsibility to present your homework solutions in a readable, logical manner — not mine to decipher and interpret them. There will be a grade penalty.
- In an incorrect solution, I will reward statements in homework and on exams that show you know it is incorrect and why. I will also reward any effort above and beyond what is explicitly asked for in a problem.