Phys 402 Spring 2019 Homework 3 Due Friday, February 22, 2019 @ 9 AM

- 1. Griffiths, 2nd Edition, Problem 6.1 <u>or</u> Griffiths, 3rd Edition, Problem 7.1 [perturbation theory]
- 2. Griffiths, 2nd Edition, Problem 6.2 <u>or</u> Griffiths, 3rd Edition, Problem 7.2 [more on perturbation theory]
- 3. Griffiths, 2^{nd} Edition, Problem 6.16 \underline{or} Griffiths, 3^{rd} Edition, Problem 7.19 [commutators for spin-orbit interaction]
- 4. Griffiths, 2nd Edition, Problem 6.19 <u>or</u> Griffiths, 3rd Edition, Problem 7.22 [quick exercise on expansions in series]
- 5. Griffiths, 2nd Edition, Problem 6.20 <u>or</u> Griffiths, 3rd Edition, Problem 7.23 [qualitative determination of when Zeeman effect becomes "weak" in class we touched the strong Zeeman effect: let's see what "strong" means...]