

Physics 221A
Fall 2021
Homework 14
Due Thursday, December 9, 2021

Reading Assignment: Notes 25, 26 and 27, entire. **Supplementary Reading:** Commins discusses fine structure, hyperfine structure and Zeeman effect in Secs. 10.1–10.3.

Note that this homework is due the Thursday of dead week. I'm afraid I can't allow late homeworks on this one, because the GSI and reader need time to do the grading. I will hold office hours on Thursday, December 9, noon-1pm, location TBA. The GSI has office hours that day, 11am-noon.

Please do problems 24.2, 26.1, 26.2 and 27.1, but skip part (c).