

**Physics 221A**  
**Fall 2019**  
**Homework 11**  
**Due Friday, November 15, 2019**

**Reading Assignment:** Notes 17, Secs. 5–10; Notes 18, entire; Notes 19, Secs. 1–6. **Supplementary Reading:** Commins covers hydrogen in Sec. 8.5–8.7 and the coupling of angular momenta in Sec. 7.8.

Please do problems 16.3, 17.1, 18.1, 18.2.