Physics 221A
Fall 2019
Homework 10
Due Friday, November 8, 2019

Reading Assignment: Notes 14, Secs. 8–9; Notes 15, entire; Notes 16, entire; Notes 17, Secs. 1–4. **Supplementary Reading:** Commins covers magnetic resonance in Sec. 7.6 and orbital angular momentum in Sec. 7.7. He covers the radial Schrödnger equation in Sec. 8.3 and some aspects of diatomic molecules in Sec. 13.1, but not in as much detail as in our notes; he covers hydrogen in Sec. 8.5, including the $SO(4)$ symmetry in Secs. 8.6–8.7.

Please do problems 14.1, 15.1, 16.1, 16.2.