

Physics 221A
Fall 2017
Homework 10
Due Friday, November 3, 2017 at 6pm

Reading Assignment: Notes 18, Secs. 13–14; Notes 19, 1–16 and 19; Notes 20, Secs. 1–4. I am asking you to skip Secs. 17–18 of Notes 19, because it is a rigorous but somewhat technical proof of the Wigner-Eckart theorem, and I outlined a simpler proof, based on recursion relations, in lecture. Supplementary Reading: Commins covers the Wigner-Eckart theorem and related matters in Secs. 7.9–7.12.

Please do problems 18.1, part (a) only; 19.1; 19.2 but omit part(b); and 19.3.