

Physics 221A
Fall 2021
Homework 2
Due Friday, September 10, 2021

Reading Assignment: Notes 1, Secs. 18–28; Notes 2, entire; Notes 3, Secs. 1–5. Supplementary reading: Commins Sec. 3.2 contains material on photon polarization that is similar to the presentation of the Stern-Gerlach experiment in Notes 2. The photon experiments are much easier to carry out experimentally, but the x , y and z directions are not in real space, but rather on the Poincaré sphere.

Please do Problems 1.5, 2.2, 2.3 and 3.1.