

**Physics 221B**  
**Spring 2022**  
**Homework 24**  
**Due Friday, April 8, 2021 at 5pm**

**Reading Assignment:** Notes 41, Secs. 9–15 and 17–21 (you may skip Sec. 16 on the orbital angular momentum of the electromagnetic field); Notes 42, Secs. 1–4.

Please do problems 40.2, 41.4 and 41.5.