

NORTHERN ILLINOIS UNIVERSITY

PHYSICS DEPARTMENT

Physics 283 – Modern Physics

Spring 2023

Problem Set #10

Problem Set Due: Thurs., April 20, 2023

Read Krane: Chapter 8.1-8.6

1. Krane: **Problem 1** page 266 (just show calculation)
2. Krane: **Problem 6** page 267 (just show calculation)
3. Krane: **Problem 7** page 267 (just show calculation)
4. Krane: **Problem 14** page 267 (sketch energy level diagram & transitions for (a) & (c))
5. Krane: **Problem 17** page 267 (just show calculation)
6. Krane: **Problem 22** page 267 (sketch energy level diagram)