

NORTHERN ILLINOIS UNIVERSITY

PHYSICS DEPARTMENT

Physics 283 – Modern Physics

Spring 2023

Problem Set #5

Problem Set Due: Thurs., March 2, 2023

Read Krane: Chapter 5.1-5.4, Lecture Notes #1

Chapter 5

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|---|--------------------------------------|
| 1. Krane: Problem 2 | page 174 |
| 2. Krane: Problem 5
(see Fig. 5.13) | page 174 (draw energy level diagram) |
| 3. Krane: Problem 7 | page 174 (draw figure) |
| 4. Krane: Problem 9 | page 174 (sketch wavefunction) |
| 5. Krane: Problem 12 | page 174 (sketch wavefunction) |
| 6. Krane: Problem 15 | page 174 (just show calculation) |
| 7. Krane: Problem 16 | page 174 (just show calculation) |