

NORTHERN ILLINOIS UNIVERSITY

PHYSICS DEPARTMENT

Physics 383 – Modern Physics

Fall 2023

Problem Set #6

Problem Set Due: Thurs., Mar. 7, 2024

Read Krane: Chapter 7.1-7.5

There will be a Quiz #2 on Tuesday, March 19

1. OpenStax University Physics Vol. 3: Section 1.3: Problem 39
2. OpenStax University Physics Vol. 3: Section 1.4: Problem 47
3. OpenStax University Physics Vol. 3: Section 1.5: Problem 55

4. Krane: Problem 1 page 233 (just show calculation)
5. Krane: Problem 6 page 233 (just show calculation)
6. Krane: Problem 8 page 233 (just show calculation)
7. Krane: Problem 10 page 233 (just show calculation)
8. Krane: Problem 12 page 234 (***plot radial probability density***)
9. Krane: Problem 14 page 234 (just show calculation)