

NORTHERN ILLINOIS UNIVERSITY

PHYSICS DEPARTMENT

Physics 383 – Modern Physics

Spring 2023

Problem Set #3

Problem Set Due: Thurs., Feb. 9, 2023

Read Krane Chapter 3 (Sections 3.2 & 3.4-3.5)

Chapter 3:

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|---------------------|--|
| 1. Krane Problem 7 | Show derivation |
| 2. Krane Problem 8 | Show derivation |
| 3. Krane Problem 9 | Draw experimental setup for the photoelectric effect |
| 4. Krane Problem 11 | Show derivation |
| 5. Krane Problem 24 | Draw scattering diagram |