## Readings for Gamma-ray Crystal Spectrometer Experiment

## Understand:

- 1. Beta decay, gamma emission, annihilation radiation.
- 2. Photomultiplier Tube
- 3. Sodium Iodide (NaI) Scintillator
- 4. Compton Scattering
- 5. For GCS Pulse height analyzer (PHA)

On reserve in library are several copies of:

W.R. Leo, Techniques for Nuclear and Particle Physics Experiments, Springer, 1994.

Chapter 1- Beta decay, gamma emission, annihilation radiation

Ch 7 Scintillation Detectors, especially 7.1 General Characteristics, 7.3 Inorganic Crystals

Ch 8 Photomultipliers

Ch 9 Scintillation Detector Mounting and Operation

Ch 15 P303-310 Pulse Height Selection and Coincidence Technique –Multichannel analyzer

P 52 Compton Scattering

Most of these topics are also covered in Knoll, G. F., Radiation Detection and Measurement, which is also on reserve.