Opti 380A – Intermediate Optics Lab I – Fall 2009

Post-Lab Questions for Lab 3: Detectors

Post-lab questions are due at the beginning of lecture on the Monday following your lab.

1.) How does the PMT gain vary with cathode-anode voltage?

2.) How fast is large photodiode? How much influence does the load resistor settings on ***RÁPIDO*** (the high-speed New Focus detector) on the detector speed?

3.) Describe the significant differences between the pyroelectric detector and the other detector types you worked with in this lab (sensitivity, speed etc..).