Weekly Report

Date: 9/24/12

Project Name: Light Detection with ultra-high dynamic range

Group Number: 35

Group Members: Dohyun Kim, Eric Kleinberg, Leran Firer

Current status of project: Selecting Pin Diode/Focusing System, More research needed to properly select Peltier Cooler.

Work completed in the last week: Bessel Filter was designed and existing solutions were examined. PIN diode Pugh Chart completed. Research on thermal interfaces in conjunction with Peliter systems was conducted. Optical research was focused mainly on achromatic doublets as well as on the diffraction limit based on recommendations made by the client in a brief meeting on 9/22/12.

Work planned for next week: The group will calculate the diffraction limited spot and via this choose the PIN diode with the proper active area. From knowledge of the PIN diode, group will select a Peltier system.

Anything needed from client or TA or instructor to continue work: N/A