

Summary of Student Activities on Hall-D Alternative Readout Project

Schedule

Some items without assignment have been assigned to the student working on the project. This are the follow:

- Begin Design
 - Determine location and Orientation of FMPMT, relative to B Field -> Pedro Toledo.
 - Develop initial model for Geometry of Light Guide from BCAL and to PMT -> Joaquin Delgadillo.
- Begin Prototyping
 - Obtain FMPMT for prototype -> Pedro Toledo
 - Obtain Light Guide Fabrication Materials -> Manuel Mendez and Eduardo Mora
 - Obtain green fibers -> Manuel Mendez and Eduardo Mora
 - Obtain/Update electronics for Measurements as needed -> Alam Toro
 - Measure Performance of Light Guide FM PMT -> Manuel Mendez and Eduardo Mora
 - Make prototype of Light Guide -> Manuel Mendez and Eduardo Mora

And the item marked as “Calculate Light Collection using Geant” we have changed the responsible to Georges Lawkosky, who has started learning Geant4 and has run some basic simulation, as first step.

Determine location and Orientation of FMPMT, relative to B Field

Pedro Toledo has started the study of the available information from the Wiki Page of Gluex, specifically, the document called “Magnetic Fields at the location of detector pmts”.

Obtain Green Fibers for prototype

Manuel Mendez and Eduardo Mora have begun collected data about the green fiber and are analyzing the data published in the Wiki Page of Gluex.

In the next few hours should be published a progress report on this item.