

Augustana iHCAL Status and Plans

Nathan Grau

Augustana University

December 8, 2018

Contribution Plans

- ▶ Purchase all electronics except SiPMs
 - ▶ SiPM boards, preamps, interfaces, backplanes, LED driver boards, controllers, trigger boards
 - ▶ Cabling and power supplies.
- ▶ These will need to be shipped to elsewhere for assembly, etc
- ▶ SiPM testing will be done at Augustana with undergraduate student labor.
 - ▶ Will have a testing station on campus that we will have used to test other SiPMs
- ▶ BNL will need to ship the SiPMs to Augie and we will need ship them for assembly once tested.

- ▶ From John's "Plan A" spreadsheet \$389,496 for electronics cost
 - ▶ Includes purchasing and assembly.
 - ▶ Includes 5% contingency.
- ▶ 6144 SiPMs would be 37 trays of 13x13 SiPMs
 - ▶ Student labor: 1 tray/day x 4 hrs/day x \$11.25/hr = \$1665
 - ▶ Not in the budget
- ▶ Are any shipping costs part of the budget?

- ▶ This week: need to submit preliminary details of the budget and requirements of Augie
 - ▶ Need a name of the proposal
 - ▶ Need confirmation of additions to budget
- ▶ I can make myself pretty available during the next month to work on any part of this as necessary
 - ▶ Will be at WWND Jan 6 – Jan 12, but have time to write/review.
 - ▶ Need to visit BNL and/or Michigan later in January to get ready for SiPM testing starting in late February/early March