

2/2/17 - Steering Group Meeting Notes

Introduction

Attendance: Erica Snider, Katherine Lato, Elisabetta Pennacchio, Mark Thomson, Brian Rebel, Tom Junk, Tracy Usher.

Slides and documents are available at:

<https://indico.fnal.gov/conferenceDisplay.py?confId=13416>

Erica reviewed the process for setting priorities including the purpose of the meeting which is to gain approval from experiment spokespeople in the Steering Group meeting.

Short-term Priorities

Went through the short-term priority projects, emphasizing that these are going on concurrently.

- Comment from Tom about photon modeling, that appears to be on both sides of the boundary. Agreed that is true, and noted that SCD will also support the Geant4-based photon propagation model.
- Tom: Does NuWro need a huge interface like GENIE? Yes, in principle. But the current project does not include that implementation.

Longer-term priorities - what we're setting up to do. Expect all of these to involve some experiment effort.

(No questions or comments made.)

Ongoing projects:

- PID results may come in different forms, don't want to stifle innovation. Part of the PID result is the same regardless who does it. Other things that have gone into that decision may also want to be stored, and can be done via association. If enough is common, can put it into the common object.

Projects accepted, but not scheduled.

(no comments)

On-going work & resources - would like targeted effort from experiments that provide value to LArSoft, the experiment and is of professional value.

(no comments)

Open discussion

From Brian: question about timing of SPACK deployment. Jim Amundson expects to be done end of February. Brian Rebel (& others) would be happy to be beta-testers.

From Tracy: LArLite integration and Event display - what about them?

LArSoft project portion of LArLite integration that has been completed. The balance of work belongs to the experiment.

Event Display - SCD proposes we use a common approach based on ParaView. That approach is under development. If that project will not deliver what we need, then we can discuss next steps, but right now are waiting on the results of that work.

Round table

Elisabetta - Regarding dual phase, no effort to contribute to development now. Have dual phase geometry implemented. It is being validated. Also starting work on reconstruction in LArSoft with the idea that it can be used once protoDUNE has data.

Brian - LArIAT high priority is shower finding algorithms. There are some available now in LArSoft from Pandora and Michael Wallbank. Wes has agreed to port the LArLite-based shower reconstruction to LArSoft. Main problem for LArIAT is when algorithms assume three planes, like Pandora does. Erica said we should discuss how to address this.

Mark - Geometry for multi-TPC volumes is an important issue. Otherwise, get the sense there's a lot more acceptance of LArSoft overall within DUNE. The effort by the LArSoft team is having an impact in this respect. Positive feedback.

Tom - Don't have much beyond the very complete list here. Appreciated the work with Robert, he may need further help, can't predict. They liked code review concept and thought they may have candidates.

Tracy - 1) Looking forward to track classes, great presentation on the topic at the Coordination Meeting and MicroBooNE reconstruction group. Concerned about proliferation of data products. In general, should there be an option of mutability of data products? For example, consider bit-masks in the new track. A change of decision there would require writing out an entirely new data product.

2) review shower object output. Erica mentioned this is part of the long-term plan. We'll think about moving this up in priority.

3) ICARUS is getting ready to implement their geometry, looking for help.

Conclusion:

After the round-table discussion, there was a brief overview of the accomplishments for 2016, with a reminder that the Indico site contains word documents with details of the plan and the accomplishments.

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Please let us know if there are any corrections or comments to these notes.

Katherine & Erica