

S&C Coordinators and LArSoft Project Leads Monthly Meeting

We covered three topics: Proposed work for FLuka to interface with LArSoft; Code analysis outcomes and next steps; Proposed focus and priority of core LArSoft development/support effort after current activities complete at the end of June

Proposed work for FLuka to interface with LArSoft

We invited Stefania Bordoni who is a CERN fellow in the Neutrino Platform organization at CERN. She is tasked to work on the Fluka interface/integration with LArSoft. She has previously worked on T2K at Barcelona.

We agreed at the meeting that LArSoft core effort cannot be applied to this activity before the following are in place:

- Request from stakeholder for this to be a priority consulting activity of the project. Tom Junk will work with protoDUNE/DUNE to send this request.
- Written plan from Stefania on the work to be done.
- Impact statement from LArSoft project on the core project consulting/potential coding changes needed to meet the deliverables of the plan.
- Usage agreement on the distribution and use of the software by LArSoft experiments and project from the Fluka project leads, agreed to by the LArSoft steering group.

We created a LArSoft Feature Request Issue where we have posted the current plans as discussed with Stefania this week

<https://cdcv.s.fnal.gov/redmine/issues/12792>

Code Analysis Next Steps

A request was made to MicroBoone to work with the new owner of fuzzyCluster, when identified, and a sub-set of the reviewers for PMA on a review of fuzzyCluster as part of the “ownership transition” process. We agreed this should be communicated/proposed as one of the benefits of a common/centralized project in supporting and consulting with module owners when they are “on-boarded”.

Next Activities for the core LArSoft development/support effort

The experiment S&C coordinators will find alpha testers of the “improved usability of associations” work. LArsoft will check with Gianluca and Saba when the documentation will be complete and when such testing would be useful.

It was agreed to propose that after the Usability work finishes LArSoft work on a focus centered around Data Products (under the umbrella of re-architecture work) for Gianluca and Saba to work on. This will include forward looking thinking about how these might need to evolve to support new architectures and software developments.

A second focus will be on enabling support for ProtoDune-DP use of the LArSoft. The first deliverable here will be a document assessing the work needed. We will ask Robert Sulej – already doing development here and who is also a member of protoDUNE-DP to work on this project together with another of the LArsoft core project developers.

The Event Display project has been vectored off from LArSoft. LArSoft will be a stakeholder to the Paraview project led by Adam Lyon and to changes in art to support additional interactivity with event displays/external modules as part of a workflow. People are pointed to the SLACK for paraview-hep <https://paraview-hep.slack.com/messages/general/>

DUNE will aim to send in the next 10 days a prioritized/urgency rated list of things that they need LArSoft to work on in the next six months.