

LArSoft minutes, 30-Sep-2010. -- Eric Church

LArSoft minutes appear on the two redmine project sites (soon, just one) listed below. For the details of these matters we advise drilling down into the usual spot at <https://cdcv.s.fnal.gov/redmine/projects/activity/larsoft> (check also the Wiki button there) and attending the bi-weekly meetings. We welcome all interested parties and would-be contributors. Next meeting is 10/7/2010 (extra mtg, ART workshop) and then 10/14/2010 9am CDT. <https://cdcv.s.fnal.gov/redmine/projects/activity/larsoftsvn> is the new (temporarily so-named) wiki for all your help getting up and running on ART. Watch for an email to LARSOFT listserv for next wk's Workshop details.

>>> video: 85LARSW

>>> phone: 510 883 7860 (ID 85LARSW)

>>> fnal location: LIBRA - WH9SE (10/14), TBA (10/7)

- (0) Over-riding concern is that the ART Event Display must be ready for many would-be porters to have interest in participating in this exercise. We're sympathetic. We'll bump that to the top of the queue in negotiations with CD 9th floor. Kinga, Josh, Saima all mentioned it. Others agreed this is a high priority.
- (1) Eric reported progress on the ART port. /uboone disk will be its own entity soon (couple days), and not a link to /argoneut. He's nearing the end of making comparisons between FMWK and ART for the CalData module. Getting all the input XML/py parameters consistent is non-trivial. This is a bigger problem the deeper we get into the Recon chain. And days were wasted learning how to get around a bizarre ROOT conflict with the output file and an input file. (Not a problem specific to ART.) Kinga's clusterFinder work is up next, which port Eric will begin next wk. Then Josh's vtx stuff, then Maddolena/Ornella's 3D tracking and Roxanne/Biagio's Showerfinding stuff. Brian got SRT up in ART, instead of the appealing in some ways, unappealing in others Scons. So one less thing for FMWK porters to have to learn. The public/private release and development paradigm will be familiar.
- (2) Saima has gotten hyperons into (our version of) Genie 2.6.0 MC evts after pinging Costas. Tim says Costas *may* build strange baryons into Genie in a future release. He thinks they make up few-ish % of the neutrino DIS-produced baryons. Saima will look for displaced secondary vertices in the $\Lambda \rightarrow n, \pi^0$, $\pi^0 \rightarrow \gamma, \gamma$. She thinks they're mm-ish displacements. She'll report back on this.
- (3) Kinga's playing with a new parameter in her DBScan cluster finding, and should be done in a wk, or so. She is pretty well ci'd into the FMWK svn repository. (Thus, a port can begin.)
- (4) Roxanne is diving into ART vis-a-vis ShowerFinding. Discussions with Eric and Biagio will commence soon.
- (5) Bill Seligman, who requested a task, was urged to think about undertaking to get a database (mySql or postgre) up with user hooks into it from ART. We'd use such a thing for detector specific, run specific, etc, configuration parameters.
- (6) Adam Patch is making good progress on getting the uBooNE geometry in. Report, we hope, forthcoming in 2 wks.
- (7) Among other useful stuff up on the redmine larsoftsvn (not larsoft) wiki is the obligatory Code Specification document. You might give it a look. Also there are very helpful details to help

with the necessary hand-holding to get up on ART. Eric adds that you may skype him at ericdchurch for help in getting underway with ART.