

LArSoft minutes, 23-May-2012. -- Eric Church

LArSoft minutes appear at <https://cdcvs.fnal.gov/redmine/projects/activity/larsoftsvn>. (The location presumably at which you found these!) For further details of matters reported here drill down into the wiki, etc, at that redmine site. Everyone is welcome to attend the (now!) monthly meetings. Next meeting will be 20-June-2012 It will be back in the Racetrack, 7X0.

There are pdfs from Brian, Eric, Mike on the Documents link on redmine today. Note that we're now organized from a central agenda at <https://indico.fnal.gov/categoryDisplay.py?categId=234>. Just go to indico.fnal.gov and click Experiments, Larsoft, General in the future.

S2012.05.09. Brian. frozen release declared official.

Mitch asks: Argoneut needs to recon any new files to get Hits to have the View enumeration correctly? Yes.

Dev. Brian. Associations are going in. No more pulling art::PtrVectors or art::Ptrs of things from the event. Will get objects strictly from art::Assns.

Brian/Mike want all to check any outstanding code into dev so that they can make all the changes to create/use Assns. So, make sure your code compiles and check in now!

Ornella suggests we enforce some quality control checks so that new code doesn't give different/surprising results for ArgoNeuT. Thus, she/Kinga will provide LArSoft with an analyze() module, which we'll use manually and perhaps in automated/cron form to do this check.

FLUKA: Mike mentions that there is a license agreement. Further, there is an absence of total availability of the fortran source. Lots of .a libraries are provided, e.g.

Ornella's working on some ArgoneuT comparisons of FLUKA and GENIE.

This sounds like benchmarking, which is explicitly forbidden in the license. Which license we all think is odious.

Flavio says the nuclear physics in FLUKA is more reliable.

Robert Hatcher / others wonder if a real comparison is even possible.

Can we break the initial state xsection off from FSI effects? We really perhaps just want PEANUT, their intra-nuclear model. That is explicitly also not what FLUKA wants to give us.

All agree we should formally invite/request FLUKA to work with the FNAL neutrino community. Ornella/Flavio will do that.

Prongs:

Eric discusses how classes which derive from each other are fine and useful within LArSoft, but there are problems. Pulling in such objects and "upcasting" and reading information without regard to whether the data is one thing or its inherited class is very useful often. But it turns out that persistent (RecoBase)

objects present difficulties that make this feature actually problematic. We will thus no longer support Prongs, from which Tracks and Showers inherit. The inheritance will no longer exist.

We're going to an every 4 wks mode for LArSoft henceforth. Thus, the next LArSoft General meeting will be June 20.

See ya June 20, 2012. 4 weeks, not 2 weeks hence! -- Eric

Details for the next meeting:

>>> video: 85LARSW

>>> phone: 510 423 9220 (ID 85LARSW)

>>> final location: Racetrack, 7th floor x-over