

LArSoft Coordination Meeting

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Today's agenda and speakers

- Releases and project report (Erica)
- Status of architecture work (Gianluca Petrillo)
- Update to Geometry test selection (Gianluca Petrillo)
- t0 reconstruction from truth information (Karl Warburton)
- New associations for shower reconstruction (Mike Wallbank)
- Update on 3D Projection Matching Algorithm (Dorota Stefan, Robert Suleg)
- AOB

LAr TPC software forum

- www.LArForum.org/forum
 - A new forum created (or the old LArForum has been resurrected)
 - Hosted at Manchester by Andrzej Szec
 - Aimed at discussing software for LArTPC detectors
 - Contains all of the content from the previous forum
 - Lots of tools, feature plugins available for the phpBB application used
 - If there are features you want, please let us know

We strongly encourage people to sign up and participate

art / LArSoft course

- art / LArSoft class August 3 – 7
 - See <https://indico.fnal.gov/conferenceDisplay.py?confId=9928>
 - Last day of the class will be devoted to LArSoft
 - Class is now full!
 - Register for waiting list: [t
https://indico.fnal.gov/confRegistrationFormDisplay.py/display?confId=9928](https://indico.fnal.gov/confRegistrationFormDisplay.py/display?confId=9928)

If you have registered, but know you cannot attend, please let us know!

Send suggestions, comments to ssehrish@fnal.gov and erica@fnal.gov

Releases

- Released v04_17_00 last week
 - Normal weekly release
- This week
 - Can we defer a release until after her return on Aug 3?
 - If not, then we need to make arrangements to have a release built
 - Have two other people who can do this
 - One (Patrick Gartung) has agreed to do so if we decide there needs to be a release

Status of on-going sub-projects

- Architecture report (Gianluca)
- LArLite integration project
- Profiling and optimization project

Short reports

- LArSoft / LArLite integration project

Leaders: Chris Jones and Marc Paterno

- No change since last week due to preparations for art/LArSoft course
- The initial report has been posted to the indico page for the last Coordination Meeting

(<https://indico.fnal.gov/conferenceDisplay.py?confId=10108>)

Please direct any feedback to Chris Jones and Marc Paterno
(please cc Erica too!)

Short reports

- Profiling and optimization

Leader: Jim Kowalkowski

- Waiting until after the art/LArSoft course to start work
- Target completion is still mid-August

- The scope of the work
 - Evaluate the use of GEANT4 through LArSoft using LARIAT simulation as a model
 - Look at
 - physics lists
 - geometry use and energy deposition
 - stepping and other GEANT4 parameters
 - code speed
 - upstream detector integration (if time allows)

The end