

LArSoft Coordination Meeting

Release and project report

Erica Snider
on behalf of
the SciSoft team
Fermilab

January 25, 2022

Today's agenda and speakers

- Release and project report (Erica)
- LArTPC simulation and data processing with Theta (Patrick Green)
- AOB

Releases

- Last few weeks
 - v09_40_00 released Dec 15, 2021
 - New features
 - [larvecutils](#) repository / product added. See [LCM presentation by Giuseppe Cerati](#)
 - [lardata#21](#), [larreco#37](#): migrating relevant code to larvecutils
 - [larsim#84](#): Semi-analytic light simulation refactoring (no change to physics)
 - v09_41_00 released Dec 17, 2021
 - Approved set of “MCC9” updates from MicroBooNE
 - New features
 - [lardata#20](#), [lareventdisplay#13](#), [larreco#35](#), [lardataobj#17](#), [larpandora#22](#), [larreco#36](#), [larana#15](#)
 - See presentations at the [Nov 2](#) and [Dec 14](#) LCM for details

Releases

- Last few weeks (cont'd)
 - v09_42_00 released Jan 13, 2022
 - New features
 - [larsim#85](#): add offset to TextFileGen module ot make running grid jobs easier
 - [larwirecell#13](#): add new DepoSetSource + related change make Pgrapher engine more efficient
 - [webev#36](#): add “save” button that downloads a png of current canvas
- This week
 - Approved PRs

Status of PRs

- Under discussion:
 - [larg4#33](#): Add pointer check when looping over processes at post step loop
 - Appears to be a work-around for an underlying problem that is yet to be fixed
 - Under review by Hans. Might go in this week's release
 - [larcorealg#21](#): geo::OpDetGeo made aware of detector orientation
Opened Aug 21
 - Purpose
 - Fixes a problem where rotations in GDML are not taken into account by Geometry service in some cases. Needed by DUNE vertical drift and SBND.
 - Addresses [issue #26118](#)
 - Status: unchanged since Oct 29
 - *Found photo-detector geometry issues in CI testing for dunefd-hd and SBND*
 - *Placed on hold while author was away*
 - *Expect updates soon*

Status of PRs

- Approvals in progress:
 - [larpandoracontent#36](#):
 - Fix to avoid writing feature vectors containing NaNs into PF particle
 - Expect this to be in this week's release
 - [larrecodnn#25](#): add code to produce training sample for trkshowermichelid
 - Expect to be in this week's release

Spack migration update

- Current status
 - Continuing with Phase 1 rollout
 - Porting larsoftobj suite to use cetmodules
 - Fixing issues along the way
 - Will provide additional information on required follow-up actions needed before going live
- Target date was January, 2022
 - Will miss this by a little
 - More information soon

Status of LArSoft wiki access

- Have decided to proceed with migration of wiki to GitHub wiki
- Work in progress now to complete the migration
 - Needs to be performed a few pages at a time
 - Hope to complete the process over the next few weeks
- As mentioned last time:
 - Lab allows CERN SSO logins to view most content behind Fermilab SSO
 - The lab will provide “lightweight” Fermilab SSO accounts, much as CERN does
 - Do not know the status of this
 - Can use <https://search.fnal.gov> site (SSO-protected) to for google searches *within* SSO-protected domain (and only within...)

The end