

LArSoft Coordination Meeting

Release and project report

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Fermilab

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Today's agenda and speakers

- Release and project report (Erica)
- ParticleID data product update (Herb Greenlee)
- AOB

Releases

- Last two weeks
 - v09_38_00 released Dec 1
 - New features
 - [lardataalg#28](#): new FHiCL parameter to enable timing offsets in recob::Wire
 - [webevd#34](#): work out size of PNGView structure on demand
 - [larpandoracontent#35](#), [larpandora#24](#): hierarchy tools, metrics, primaryBackground MC process
 - Bug fixes
 - [larsim#82](#), [larsim#83](#): map SimChannels by cryostat, fix bug in [larsim#81](#)
 - [larsim#79](#): remove spurious configuration parameter
 - [webevd#33](#): fix URL
 - [lardataobj#19](#): add missing header to BeamGateinfo.h
 - New version of marley v1_2_0f that fixes file search path problem in v1_2_0e

Releases

- Last two weeks (cont'd)
 - v09_39_00 released Dec 7
 - use nutools v3_12_01 and related packages
 - Note: all of the above built with cetmodules. *Will com back to this...*
 - Branches feature/lg_nutools_v3_12_00 provided for experiment code
 - use `find_package()` and target libraries in larsoft CMakeLists.txt files
 - v09_38_01 released Dec 8
 - Fix problem discovered in ifdh_art v2_13_00 used in v09_39_00
 - v09_39_01_01 released Dec 10
 - Production release for SBN: SBN2021C
 - larsim#79: removed spurious configuration parameter (included as part of larsim#82)
 - larsim#82: map SimChannels by cryostat to prevent extra SimChannels from being created
 - larsim#83: Fix AuxDetHits and SimEnergyDeposits, bug in [larsim#81](#)

Releases

- This week
 - Approved PRs
 - ParticleID update as discussed today
- Also of note
 - **larvecutils** is now a LArSoft repository on GitHub
 - For code that can be accelerated with avx-512 enabled under icc compiler
 - Will be distributed as part of larsoftobj suite
 - Expect first PRs soon

Status of PRs

- Under discussion:
 - [larsim#84](#): Semi-analytical light simulation refactoring in the new LArG4
 - Author has responded to comments
 - *Need L2 approvers to look at this given potential of unintended change to physics*
 - [larcorealgs#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*

Spack migration update

- Current status
 - Preparing to complete ‘Phase 1’ of Spack migration
 - Build under Spack-based `cetmodules` with UPS compatibility
 - Allows new and old build system to co-exist
- What is new?
 - Chris Green: expects to have working Phase 1 migration script this week
 - Will accompany new version of `cetmodules` and compatible version of `mrbs`
- What does this mean?
 - With these developments, will be in position to proceed with Phase 1
 - Target Phase 1 roll-out in January, 2022

Expect more details of the migration procedure / timeline early next year

Holiday release schedule

- The integration release this week will be the last for this year
 - Exception
 - If current / expected PRs will be ready by morning of Monday, Dec 20, will cut the release then instead of this week

If there are urgent changes to be merged, please let us know ASAP

Status of LArSoft wiki access (unchanged since last LCM)

- Looking at migrating LArSoft wiki to GitHub to address problems with wiki access due to Fermilab SSO requirement
 - Status
 - Have performed test migrations. Still evaluating result. ← this is where we are...
 - Expect to make a decision within next couple of weeks.
- As mentioned last time:
 - Lab plans to allow CERN SSO logins to view most content behind Fermilab SSO
 - Plan to expand this to SSO logins from other labs. Unclear if universities will be included.
 - The lab will provide “lightweight” Fermilab SSO accounts, much as CERN does
 - Will allow access to more restricted set of Fermilab SSO-protected content
 - In the meantime, <https://search.fnal.gov> site (SSO-protected) intended to provide google-quality search *within* SSO-protected domain (and only within...)

The end