

# LArSoft Coordination Meeting

*Release and project report*

Erica Snider  
on behalf of  
the SciSoft team  
*Fermilab*

September 21, 2021

# Today's agenda and speakers

- Release and project report (Erica / Kyle)
- LArSoft migration to art 3.09 (Kyle Knoepfel)
- Using cetbuildtools 8 and mrb 5 with art 3.09 (Chris Green)
- Tips and tricks for LArSoft with art 3.09 (Lynn Garren)
- AOB

# Releases

- Last few weeks
  - v09\_28\_03 released Sept 1
    - New features
      - [larutils#11](#): add sbndqm build script
    - Bug fixes
      - [larg4#24](#): fix segmentation violation from duplicate track IDs in MCParticles ([issue #26197](#))
  - v09\_28\_04 released Sept 1
    - Hot-fix to v09\_28\_03
      - [larg4#25](#): fix misplaced assert statement introduced in [larg4#24](#)
  - v09\_28\_05 released Sept 7
    - Bug fixes
      - [larg4#26](#): handle post step-points with no process-defined steps ([issue #26221](#))

# Releases

- Last few weeks
  - v09\_28\_01\_01 released Sept 10
    - Production release for SBN (per [issue #26222](#))
    - Bug fixes
      - Includes previously mentioned larg4#24, larg4#25, larg4#26 on v09\_28\_01 base release
  - v09\_29\_00 released Sept 14
    - New features
      - [lardataalg#24](#): update drift velocity calculation to include additional optional model
      - [larwirecell#12](#): fix translation between WCT and LArSoft for labelling plane views, especially relevant for some vertical-drift geometries

# Releases

- This week
  - Approved PRs in early week release
  - Later this week: first release with art 3.09, cetbuildtools 8, mrb 5

# Status of PRs

- Under discussion:
  - [larcoreal#21](#): geo::OpDetGeo made aware of detector orientation  
opened Aug 21
    - Addresses [issue #26118](#)
    - Fixes a problem where rotations in GDML are not taken into account by Geometry service in some cases.
    - Noticed specifically for OpDetGeo in SBND and DUNE-vertical drift geometries.
  - [larsim#4](#): Decay0 fixes and improvements
    - Fix to alpha mass
    - Improved error messages / rejection method, generate positions from histogram
  - Boost test cleanups
    - [larsim#7](#), [lardata#17](#), [lardataobj#14](#), [lardatalag#25](#), [larreco#34](#), [larana#12](#), [larevt#13](#), [lareexamples#7](#), [larcoreal#22](#), [larcore#8](#), [larcorealobj#12](#)

# Status of PRs

- Approved or already merged into develop (as of Sep 20)
  - Linked Pandora PRs
    - [larpandora#21](#)
    - [larpandoracontent#32](#)
    - Support for direct use off active volume bounding boxes.
    - No change in current default behavior
  - [larg4#27](#): Restore reporting of unknown PDG in MCTruthEventAction
    - Report unknown PDG at destructor. Quiet some excessive messages

# Status of PRs

- Approved or already merged into develop (cont'd)
  - [larsim#72](#): Reduce severity of message for inability to drift electrons
    - Silences warnings from SimDriftElectrons for electrons that cannot drift to wires
    - Addresses [issue #26107](#)
  - [lardataobj#15](#): Add x location component to recob::OpFlash data product
    - Adds x position for cases where this can be inferred from PD arrangement
    - Default = the flag value “NoCenter” (set to max numeric limit for double)



# Status of PRs

- New (as of Sept 20)
  - [larana#13](#): Bug fix in OpHitFinder
    - Concerns pedestal estimation of optical waveforms in ICARUS.
    - See details in the PR. Should be backwards compatible
  - [lardataobj#16](#): Add dictionaries for vectors of *art* pointers to reconstructed objects
    - Needed to associate reconstructed objects from different TPCs in ICARUS

# Migration of LArSoft wiki

- The SSO now required for Redmine access has complicated wiki access
  - Have been asked to remedy this problem
- After brief discussion with CS/SCD management, we concluded that migration of the wiki is the best option
- Are first exploring migration to GitHub

Nothing is happening right away. This is just a heads up.

Comments welcome!

The end