LArSoft Coordination Meeting

Release and project report

Erica Snider
on behalf of
the SciSoft team
Fermilab

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Today's agenda and speakers

- Release and project report (Erica)
- Changes required for a "hybrid" light simulation in the new LArG4 (Claudia Alvarez)
- AOB

Releases

- Last few weeks
  - v09_23_01 “hot fix” to v09_23_00 released May 20
    - Fixed missing libtorch v1_6_0b in the May 18 weekly release
    - Last release with e19 support
  - v09_23_01_01 released May 21
    - Test release for nugen changes discussed at May 18 LCM

Releases

- Last few weeks (cont'd)
  - v09_24_00 released May 25
    - Linked PRs
      - larpandonracontent#24
        - *New 3-view matching alg for delta rays and Michels within CR reco pass*
      - larpandora#16
        - *Adds* simb::MCParticle *process information to the Pandora* LArMCParticle *object parameters*
    - mrb updated to v04_04_04: recognizes garsoft
  - v09_24_01 released June 1
    - larpandoracontent#25
      - New tools for the two-view-to-3D matching, and minor fixes to delta ray matching

Releases

- This week
  - nugen changes
    - See Robert Hatcher's presentation at May 18 LCM
  - Any other PRs approved today

Status of PRs

- Under discussion
  - larsim#68: Hybrid model for light simulation UGR
    - To be discussed today
  - larcoreobj#11: Move CMakefiles to cetmodules, make Spack and UPS compatible
    - Deferred at least until migration to *art* 3.09
- Approvals in progress
  - larpandoracontent#26: updates to MVA vertex selection procedure
  - larrecodnn#20: Fix “unused-result” Clang compilation warning
    - Fixes issue #25871
- Approved: none

Other changes

- Backwards compatibility problem in CLHEP used by *art* 3.09
  - mu2e found that *art* 3.09 cannot read older files with `Hep3Vector` in them
    - Traced to schema change in `CLHEP::Hep3Vector` which is not handled correctly in root IO
    - Root team is aware of the problem, and are actively working with us
  - Currently a blocker for LArSoft migration to *art* 3.09
- Compilation problem in `larrecodnn` revealed need to migrate experiment code to a common version of `tf_graph`
  - See issue #25903 for details

The end