LArSoft Coordination Meeting

Release and project report

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Today's agenda and speakers

- Release and project report (Erica)

- Updates to light simulation (Andrzej Szelc, Diego Garcia-Gamez)

- AOB

Releases

- ## Last week

    - v08_12_00 released on March 6

        - Updates to optical reconstruction

        - DUNE-specific code removed from LArSoft geometry

        - Bug fixes

- ## This week

    - Update to nutools

        - Needed to configure booster RF bucket structure in Genie as requested by SBND

    - No merge requests at present

        - Expect something today (?)

Migration to root v6.16/00

- Plan to migrate to root v6.16/00 to fix an `iorule` problem observed by MicroBooNE

  - Breaks backwards compatibility of `anab::ParticleID`

- Will accompany the migration to *art* v3.02

  - Recall that *art* v3.02:

    - Decouples art libraries from root, root-based I/O
    - Introduces `critic` product that will set up `art_root_io`
    - Includes various breaking changes as noted on the art breaking changes page
    - Is needed for LArSoft-based Spack MVP

- Anticipate both happening next week.

Genie v3

- Current status as known to LArSoft

    - MicroBooNE has been conducting extensive validation tests

    - Based at least in part on this, there is a new candidate release

        - Based on a beta version of Genie v3

    - Expect that v3.00.04 will be tagged "soon"

- Once the new version is released, will need sign-off from every experiment

LArTPC data overlay workshop

- Held at Fermilab on March 4

    - Attended by 17 people

    - Agenda: https://indico.fnal.gov/e/lartpc-overlay-workshop-march-2019

- Goal

    - Share experiences, plans and solutions for LArTPC data overlays

    - Work toward common set of shared solutions, techniques

- Lively discussion covering:

    - DUNE perspectives, thoughts from ICARUS, NOvA and CMS experience

    - Detail of technical considerations, problems, solutions

- Meeting notes and conclusions

    - https://docs.google.com/document/d/1i2njli0lvTR7ZYnvlh-YIsVkFcgGpmdjJjwdIvVj73

    - See "to-do" list at the bottom

    - LArSoft will work with experiments to organize, advise on executing the list

LArSoft workshop 2019

- Planning to hold a workshop in June at Fermilab

  - 1.5 days

  - Date TBD

- Tentative program

  - LArSoft

  - Advanced computing techniques

    - Multi-threading, vectorization, HPC resources

  - Long-term vision

  -

- Ideas, comments, feedback welcome!

  - Email erica@fnal.gov; klato@fnal.gov

The end