

# LArSoft Coordination Meeting

*Release and project report*

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## Today's agenda and speakers

- Release and project report (Erica)
- Status of the SPACK build system for LArSoft (Jim Amundson)
- Changes to the optical reconstruction (Herb Greenlee)
- Namespace removal and other breaking changes (Gianluca Petrillo)
- LArG4 re-factoring project report (Hans Wenzel)
- AOB

# Releases

- Last week:
  - v06\_13\_01
    - Only changes to develop since v06\_13\_00
  - v05\_08\_00\_01
    - Patch release of v05\_08\_00 requested by MicroBooNE ([issue #1439](#))
    - Changes beam gate to time to trigger time
- This week
  - New version of ifdhc
    - Will also change how the new ifdhc\_config product is handled
    - All transparent to users
  - New version of nutools?
    - Maybe.
    - Will include **moving LarSeedService into nutools** + (?) a dk2nu change

## LArSeedService moving to nutools!

- Received request from Brian Rebel to move `larsim/RandomUtils`
  - Want to use `LArSeedService` in non-LArSoft (but still *art*-based) code
  - Proposed moving `larsim/RandomUtils` into `nutools`
- Will rename `LArSeedService` to `NuRandomService`
- Plan to include this in the next `nutools` release
- LArSoft intends to follow this **breaking change**

**Comments? Objections?**

# GENIE 2.12 migration

- Genie 2.12 released last week.

MicroBooNE has requested that we immediately migrate **without further testing**

- Testing status so far
  - LArIAT: agnostic, so ok to move without testing
  - MicroBooNE: no plans to test - just move
  - DUNE?? No feedback yet
  - ArgoNeuT??

We can migrate immediately, but need all experiments to approve that change

# Running non-default GENIE with LArSoft

- MicroBooNE has requested ability to run non-default GENIE with LArSoft
  - Needed for studies of model systematics
- Two approaches
  - Run GENIE stand-alone to produce intermediate file used as input to lar
    - Can do this immediately
    - But adds additional step to workflow with attendant bookkeeping
  - Decouple GENIE from nutools
    - Can then just set up the correct module / GENIE version
    - A better long-term solution, allows GENIE to remain fully integrated into LArSoft
    - **Will require some re-organization**
    - Also requires **agreement with nutools stakeholders**
    - Details under discussion now

# Requested update to El Capitan support

- Received a request to install El Capitan releases
- We can do this, but:
  - will want to **drop Mavericks install** in order to remain at two OSX versions
  - support level will remain at “**know to work +**” due to SIP issues

Need feedback from experiments: can we drop Mavericks support?

- A secondary issue: docker policy
  - Request involved support of LArSoft v05 under El Capitan
    - This **requires use of docker**
  - New policy proposal:
    - We will provide docker images on request **for production releases**
    - Will update wiki with policy guidelines + instructions to open a ticket with request

Comments?

# Status of on-going sub-projects

- LArG4 re-factoring project
  - Hans Wenzel
- CI system operations
  - Vito di Benedetto
- Usability: associations
  - Saba Sehrish
- Profiling and optimization project
  - No report this week
- LArSoft documentation
  - Katherine Lato



The end