

# LArSoft Coordination Meeting

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# Today's agenda and speakers

- Release and project report (Erica)
- LArSoft / LArLite integration plan (Chris Jones)
  - Sign off on the plan so that work can continue
- Interfacing CORSIKA air shower simulation with LArSoft (Matt Bass)
- Update on CI test suite deployment (Vito di Benedetto)
- Architecture report (Gianluca Petrillo)
- AOB

# Releases

- Last week
  - v04\_30\_00
    - Initially declared production for DUNE
    - A problem with PMA tracking discovered
    - Current plans?
      - Next release (so v04\_30 undeclared as production), or a hotfix??
- This week
  - Propose NO WEEKLY RELEASE...
  - ...Except as needed to deal with DUNE MCC 5.0

# Other release issues

- Upcoming art release
  - v1.17.04
    - Fixes requested by NOvA
    - We propose migrating, but not right away
- Root 6 migration
  - Have ported underlying products
  - Making progress on porting LArSoft,
    - Actively working on this, but not ready for testing.
  - One potential issue that we're tracking down
    - root will no longer read expressions in GDML files
    - Not sure how many will be affected (suspect all of them...)
- GEANT4 v4.10 migration
  - Comments from experiments on status and plans?

# Include path change discussion

- Suggested change to include paths
  - Originated with LArSoft / LArLite integration project
  - Follows in part from the need to break some repositories into parts
    - LArSoft compliant part + LArSoft / LArLite compliant part
      - More on this in the next talk
  - In order to keep package names, need an additional path qualifier
    - So, for a class that can only be used in LArSoft:

```
#include "RecoBase/Thing1.h"
```
    - And a similar object that could be used in both LArSoft and LArLite:

```
#include "lardatalite/RecoBase/Thing2.h"
```
  - The suggestion is to change ALL paths to include the repository name
    - So the same Thing1 from above becomes:

```
#include "lardata/RecoBase/Thing1.h"
```

# Include path change discussion

- Some discussion points
  - Easier to see where includes live, so better? But significant change...
    - Requires adding a sub-directory to all repositories *a la* uboonecode, dunetpc
      - lardata/lardata/RecoBase
        - /RecoObjects
        - /...etc.
      - larreco/larreco/ClusterFinder
        - /TrackFinder
  - Would propose coupling it to the v05 release
    - v05 would then have the new core service design + new include paths
  - One potentially significant issue
    - We hope to re-factor repositories on the time scale of 6 months to a year
    - In many scenarios, this might require another include path change

Seeking feedback and further discussion (...?)

# New meeting time and location

- The rooms I investigated last week are not all available
  - Was not able to book this room on a recurring basis
- Might need to change the meeting room.
  - Stay tuned...

# Status of on-going sub-projects

- Architecture report
  - Gianluca's report
- LArLite integration project
  - Chris Jones' report
- Profiling and optimization project
  - No change
- CI system upgrade project
  - Vito's report
- Common document repository
  - Making progress, but nothing to report this week



The end