

# LArSoft Coordination Meeting

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# Today's agenda and speakers

- Release and project report (Erica)
- Architecture report (Gianluca Petrillo)
- Update on CI test suite deployment (Vito di Benedetto)
- Event mixing in LArSoft (Wes Ketchum)
- AOB

# Releases

- Last week
  - v04\_30\_02: only changes present in develop since v04\_30\_01
- This week
  - v04\_30\_03
  - Uses new art release, v1\_17\_04
  - Again only from develop (?)

# Include path change

- Discussed at the CM two weeks ago,
  - Suggested as part of repository breakup for LArSoft/LArLite integration
  - Proposal: introduce a top-level sub-directory under the repository directory
  - All include paths then will be of the form:

```
#include "<repository>/<package>/Thing.h"
```

So for example

```
#include "larreco/RecoBase/Track.h"
```

- Pros
  - Easy to see where code lives
  - Avoids package name conflicts
- Cons
  - Hardwires repository names, but may want to change those eventually
  - Need to change everything

# Include path change

- But...the all changes can be scripted, so we would
  - Change develop branch for all repositories
  - Provide a script that could be used for code in private branches
- Want to do this for LArSoft version 5

In the absence of comment / significant issues, we will proceed with this change

# Library name changes

- A related change...
- Currently library names are derived from the package name
  - The “BASENAME\_ONLY” specifier in CMakeLists.txt files
  - Library name conflicts occur whenever package names are repeated
    - The few cases where this happens are dealt with by hand
- cetbuildtool build macros have a mechanism to avoid conflicts
  - Just drop the BASENAME\_ONLY
  - Library name then derived the package path relative to project directory
- We propose dropping the BASENAME\_ONLY specifier
  - Would include in LArSoft version 5
  - Would make changes and provide a script to change private branches

# LArSoft version 5

- Planned changes for v05
  - Service interface refactoring
  - Include path changes (if adopted)
    - Requires re-structuring repositories
  - Library name change (if adopted)
    - Remove BASENAME
  - fcl validation
    - An optional feature that has been introduced in selected places via work by Gianluca on architecture project
- Proposed release schedule
  - Release candidate on Dec 15
    - Preparatory integration work on branch v05\_00\_00\_rc
    - Released tags for testing will be v05\_00\_00\_rc0, v05\_00\_00\_rc1, etc.
  - Final release on Jan 12

# Status of on-going sub-projects

- Architecture report
  - Gianluca's report
- LArLite integration project
  - No update this week
- Profiling and optimization project
  - No update this week
- CI system upgrade project
  - Vito's report
- Common document repository .



# LArSoft documentation

- Two areas of work (led by Katherine Lato)
  - Common document repository for LArSoft
  - Improvements / updates to the LArSoft wiki in redmine
- Common “LArSoft Notes” document repository
  - Have set up a private and public INSPIRE collection for LArSoft documents
  - Public: <https://inspirehep.net/collection/LArSoft%20Notes>
    -
  - Private: <https://inspirehep.net/collection/LArSoft%20Internal%20Notes>

Still in testing phase, BUT...

...Please let us know if you have technical documents on algorithms or other code in LArSoft

- We can upload them to INSPIRE and make them available to the LArSoft community

# LArSoft documentation

- Improvements / updates to LArSoft wiki pages
  - Katherine has been working through the existing pages
  - Major objectives
    - Fixing broken links
    - Ensuring that content speaks to LArSoft (ie, not the experiments, not art, not NuTools, etc.)
    - Re-structuring pages to better reflect the larger LArSoft environment
      - Ie, LArSoft is not a stand-alone tool - it works only when coupled to experiment code
      - So, provide guidance for “Getting Started” pages for new experiments, new developers, new users
    - Update all remaining content
  - Will continue to review the content periodically to ensure that the documentation there remains up to date.

The end