

# LArSoft Coordination Meeting

*Release and project report*

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# Today's agenda and speakers

- Release and project report (Erica)
- CI operations report (Vito di Benedetto)
- Multi-threading in LArSoft (Eric Church)
- Overlaying cosmic ray data in LArSoft (Herb Greenlee)
- New DB interfaces (Brandon Eberly)
- AOB

# Releases

- Last week(s):
  - v06\_05\_00 released Aug 31
    - DUNE production release for MCC7.2
    - Bug fixes + re-structured the “shared” repositories
  - v06\_06\_00 released Sept 8
    - Reduced CORSIKA output + new RecoBase dumpers
- This week
  - No special changes this week, but...

# New product releases

- GENIE 2.11.0 is now available
  - A “candidate release” for 2.12 expected in October
  - New models, other improvements.
  - Have been presenting details at experiment meetings
- GEANT4 10.2 patch2 now available
  - See release notes at <http://geant4.web.cern.ch/geant4/support/download.shtml>
- nutools
  - Created a new version that (for now) includes GENIE 2.11.0

# New product releases

- ifdhc 2.0
  - Fixes (finally!) the Mac OSX dCache 'ls' error in integration tests
  - Planning to include this in next week's release
  
- *art 2.??*
  - Fixes issue 13765: long reads of concatenated files
  - Planning to integrate this next week

## Testing new GENIE and GEANT4

- Will create a “release candidate” to facilitate testing
  - v06\_10\_00\_rc1
    - Will include the new GENIE nutools
    - Will not include the new ifdhc or *art*
  - New GEANT4 will be in a later RC
    - LArG4 needs to be adapted. Work to start next week.

These two products have direct impact on physics

- Want experiment input on how to proceed
- Will want experiment sign-off before migrating to the new versions

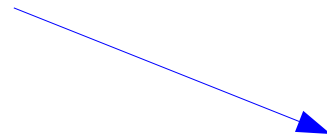
# Uninitialized memory errors

- Discovered a number of uninitialized memory error messages
  - Found during code analysis for the LArSoft workshop earlier this summer
  - Documented in issue 13063 (<https://cdcv.s.fnal.gov/redmine/issues/13063>)
- Reads and writes of uninitialized memory are bugs! May cause
  - Unexpected behavior
  - Undetected, irreproducible errors
  - Crashes
- Will mount a campaign to fix them
  - Divide the ticket into a number of sub-tickets
  - Assign to code authors with tools and guidance to fix the problem
    - Just a heads up at the moment

# Documentation

- Please document your algorithms and services
  - Looking for brief summaries + linking authors to code
- Very quick and easy!

Go to <http://larsoft.org/add/> to get started



## Add algorithm or service information

Please be sure that the URL of this page begins with **https**, or the form will not be submitted. You will see a Thank You page after you click the 'Submit an Algorithm' button if it worked correctly.

This page is used to document an algorithm or a service in the LArSoft collection available [here](#). You can see the information on this page via http, but your changes will **not** be saved unless the URL begins with https. If you are not within the Fermilab network, please follow [these instructions](#).

You do not need to fill in all the information now. You will be emailed a link that you can fill in later. There are a number of fields, but the only **required** ones are the **algorithm name** (which can be changed later and must not duplicate an existing name) and a **valid email** (which can also be changed later).

### Algorithm Info

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	REQUIRED FIELD
AUTHOR NAME	<input type="text"/>
	full name
EMAIL	<input type="text"/>
	REQUIRED FIELD



## Status of on-going sub-projects

- CI system operations
  - Vito
- Usability: associations
  - Saba Sehrish
- Profiling and optimization project
  - No report this week
- LArSoft documentation
  - Katherine Lato

The end