



## LArSoft: status report

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*LArSoft coordination meeting, March 27<sup>th</sup>, 2018*

## Today's agenda

- Release and project report (*Gianluca Petrillo*)
- Changes in LArPandoraContent v3.11 (*Andrew Smith*)
- Storing the initial tick of TPC waveform in `raw::RawDigit` (*Gianluca Petrillo*)

## LArSoft releases

Two weeks ago: [v06\\_70\\_02](#) (no update to GENIE in the end)

Special release: [v06\\_70\\_01\\_01](#) for SBND (SBN workshop)

Last week LArSoft release was [v06\\_71\\_00](#):

- includes GENIE 2.12.10a (and matching cross section “splines”)

Scheduled for the release this week:

- extensive documentation added for LArSoft timing, available in [detinfo::DetectorClocks Doxygen documentation](#)
- a new tutorial in `larexamples` on [how to catch exceptions with a debugger](#)

... and anything you are going to ask to be merged

## Support for Clang compiler

- work has been started on upgrading LArSoft code to support Clang compiler (`c2` qualifier)
- the first step is focusing on Linux, OSX will immediately follow (*we are not at this point attempting to endorse Clang over GCC on Linux*)
- the task is pushed with very high priority...
- ... but it's not an easy one: our delivery goal is a generic *as soon as possible*
- examples of issues encountered so far:
  - Clang does not accept a (valid) array initialisation syntax
  - less permissive `constexpr` support
  - one issue from enabling C++17
  - code relying on GCC internals
- found and fixed at least one bug (infinite recursion)

This is our path to LArSoft support for OSX!

# LArSoft's CVMFS

- LArSoft CVMFS area is up and running:  
`/cvmfs/larsoft.opensciencegrid.org/products`
- **we want to freeze the old area**  
`(/cvmfs/fermilab.opensciencegrid.org/products/larsoft)`  
**on April 10<sup>th</sup>!**  
⇒ **we request sign off from the experiments**
- `/grid/fermiapp/products/larsoft` **is still operating as usual**  
→ **the use of CVMFS is recommended over** `/grid/fermiapp`  
**wherever feasible**

## Forecast for the next hour

### Now on air:

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- Changes in LArPandoraContent v3.11 (*Andrew Smith*)
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