

# LArSoft partners / project meeting

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# Today's agenda

A new standing agenda starting this week

- LArSoft project report (Erica)
- LArSoft CI project report (Erica)
- Special report: Optimization of LBNE geometry (Gianluca)
- Experiment reports
  - LBNE
  - uBooNE
  - LArIAT
  - ArgoNeuT
  - LAr1ND (new here!)
- NIM status report (deferred)
- Project managers report (Ruth)
- AOB

# Release status

- v02.01.01 (fully) released
  - Merged TimeService changes into develop
    - Still verifying some changes to fcl files in lbncode
  - Removing branch v02\_01\_00\_branch previously used for v02.01.01
- Plan to resume weekly integration releases starting next week
- Expect to make a production release for uBooNE MCC5
  - Awaiting timetable, instructions

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# LArSoft CI project report

- Workshop last week
  - Generated a lot of good, useful discussion
  - Identified a number of questions to be answered, issues to pursue, areas where documentation will be required
  - Many good suggestions
    - Now being fed into requirements and design discussions for the LArSoft CI system
  - Emerged with a number of concrete steps toward developing a test suite
    - Tests developed during the workshop
    - Commitments to develop tests for specific modules
    - uBooNE prepared to require tests for all modules for MCC5, pending necessary developments in the CI system, example suite, documentation
      - We are working on this

# LArSoft CI project report

- Current activity

- Refining the requirements

- Current draft can be found here:

- [https://cdcvns.fnal.gov/redmine/projects/larsoft/wiki/LArSoft\\_continuous\\_integration\\_system](https://cdcvns.fnal.gov/redmine/projects/larsoft/wiki/LArSoft_continuous_integration_system)

- Hope to circulate a new draft later today or tomorrow

- Will then begin architecture and design discussion

- Expect this to go fairly quickly since many issues already explored during discussion of requirements, etc.

- Aiming for days, not weeks

- Will seek experiment feedback on the proposed solution

- Follow this with a work plan

- Want to roll-out most important features quickly

- Allows us to:

- Get feedback to determine whether we are on the right track

- Try to make is useful for uBooNE MCC5

# LArSoft CI project report

- Project team
  - Patrick Gartung and Marc Mengel will take the role of technical leaders
  - Mark Dykstra will be primary developer
    - Assisted by others
  - Design team currently includes the above plus
    - Lynn Garren
    - Gianluca Petrillo
    - Erica Snider
    - + experiment input
- Will report status to the stakeholders, partners group

# LArSoft architecture sub-group

- Forming an architecture sub-group
  - Purpose will be to investigate, discuss software architecture issues, agree on or propose solutions, changes
  - A number of immediate items to discuss
    - Data product architecture
      - Design + optimization
    - Algorithm architecture
      - Module decoupling, art decoupling, enable unit testing
    - Several items previously discussed / resolved, but not yet implemented
      - ROI, track class
- Members
  - Drawn from LArSoft + experiments + art team
  - Have started soliciting names
- Will report at librarian's meeting



# Other activities

- Optimization

- Effort led by Gianluca

- Two priority areas:

- 1) LBNE geometry

- Will hear some details today

- 2) Issues related to uBooNE MCC5

- Waiting for fcl files from uBooNE

- Identified issues with FuzzyClustering will be addressed as part of this work

- [Issue #6452](#)

On to the rest of the agenda...