

LArSoft project introductory remarks

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Fermilab

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LArSoft project goals for the retreat

- Architecture and design
 - To raise awareness about the benefits and utility of good software design
 - Impacts on performance, sophistication of algorithms, long-term maintenance
 - To broaden the discussion on issues of architecture and design
 - All developers should be thinking about this
 - To identify and address selected design and architecture problems
- Optimization
 - To provide information about software optimization tools
 - To explore and address selected optimization problems
- Testing
 - To identify and implement a test program using the existing test framework
- Other useful discussions as topics arise

Other project topics of interest

- Managing software changes
 - Package librarians, responsibilities
 - Package maintenance / change integration policies, procedures
 - Release procedures
- Software build and integration infrastructure
 - Build and integration platforms, processes
 - Demonstration system for LBNE in May, for LArSoft in June
 - Integration workflow automation
 - Test framework
- Geometry provenance
 - Service configuration provenance more generally
- ...

Announcements

- LArSoft project meeting schedule
 - Bi-weekly LArSoft Project and Partners meeting
 - Project priorities, schedules
 - Regular reports from experiments
 - Discussions between LArSoft and experiment offline management
 - Replaces monthly LArSoft Stakeholder's meeting
 - Bi-weekly LArSoft Librarians meeting (alternating with the one above)
 - Discuss code changes with potentially broad impact
 - Changes to data products, geometry, algorithm interfaces
 - Share algorithms
 - Release coordination
 - Release and maintenance procedures and processes
 - Replaces LArSoft General meeting
 - First meeting: next week, Wed 9:30 am, Black Hole (WH2NW)