



Today's agenda and speakers

- Release and project report (Erica)
- Developing under Spack: latest changes to MPD (Kyle Knoepfel)
- A proposed plan for standard builds under Spack (Marc Peterno)
- AOB



- Since Oct 29 LCM
 - v09_93_01 released Oct 29
 - Backport of larreco#74 (bounds check in hit sum accumulation) as requested by SBND
 - v10_01_00 released Oct 30
 - New features
 - LArSoft/larreco#72
 - Updates to track momentum calculator. Default behavior unchanged
 - See <u>presentation at Oct. 29, 2024 LCM</u>.
 - Bug fixes
 - LArSoft/larreco#74
 - Add a check on bounds of iterator used for the hit sum accumulation.



- Since Oct 29 LCM CONT'D
 - v10_20_00rc0 released Nov 13
 - First release candidate with Geant4 v4_11_2_p02
 - Based on LArSoft v10_01_00
 - See <u>release notes</u> for details on necessary changes
 - Known issue: deprecation warning in larg4
 - IMPORTANT: Legacy LArG4 is disabled in v4.11 series releases



- Since Oct 29 LCM CONT'D
 - v10_01_01 released Oct 14
 - New features
 - LArSoft/larpandoracontent#68
 - Updates for the standalone version of Pandora (to CI infrastructure and Mac build support)
 - Bug fixes
 - larsoft#25
 - Fixed pnfsToXRootD exit code which was being 'hijacked' by a printout function



- Since Oct 29 LCM CONT'D
 - v10_01_02 released Oct 20
 - Bug fixes
 - LArSoft/lardataobj#46
 - New iorule to read old data after the change from SummedADC to ROISummedADC and HitSummedADC (see talks at April 16, 2024 LCM)
 - v10_20_00rc1 released Nov 21
 - Same as rc0, but fixes deprecation warning (see Redmine issue #29197)
 - Legacy LArG4 is disabled



Status of PRs

- Under discussion
 - None
- Approvals in progress
 - <u>lardataobj#47</u>: Changes to retain ordering in MergeSimChannel
 - Detailed discussion of the problem and fix in the PR
 - o <u>larwirecell#48</u>: Allows WCT to produce SimChannels plane-by-plane
 - This has already been merged!
 - o <u>larrecodnn#49</u>:
 - Refactored NuGraph code to use tools. Allows experiment and network-version specific customizations.



Status of coming updates (updated since Oct 29, 2024 LCM)

Geant4

- Two release candidates built with Geant4 v11_2_p02
 - The most recent production version prior to v11_3 released this past Friday
 - Discussing how to proceed
 - Geant4 Technical Forum on Dec 12 to introduce v11.3 on Dec 12.
- Legacy LArG4 will be disabled
- Will require all experiments to sign-off on change prior to migration



Status of coming updates (updated since Oct 29, 2024 LCM)

Spack migration

- The major pre-migration milestones
 - Enable LArSoft development using Spack done
 - Introduces multi-product development (MPD) tools to provide some mrb-like functionality
 - Establish LArSoft release mechanisms, procedures, policies
 - Technical issues solved
 - Presentation today on procedures, policies, etc.
 - Migration plan
- Until migration
 - Must run / build LArSoft with UPS inside SL7 containers.
 - See <u>Developing LArSoft with containers wiki page</u> and your experiment documentation
- Latest Spack build of LArSoft: v10.00.03. Details at <u>Spack overview wiki</u>

Dec 10, 2024 9



The end