



Today's agenda and speakers

- Release and project report (Erica)
- TRACS migration to PandoraModularShower (Ed Tyley)
- Track calorimetry issues (Bruce Baller)
- AOB



- Releases since week of July 6
 - v08_57_00 released July 9
 - <u>larpandora#8</u>: enables Pandora to create detector gaps for ProtoDUNE DP
 - Iarrecodnn#5: raw waveform dump for ROI finding network training
 - <u>larpandoracontent#7</u>: new set of features, algorithms, notably two-view reco
 - <u>larg4#12</u>: added option to sparcify MCParticle trajectories
 - Bug fixes: <u>larsim#7</u> to properly randomize light source location, <u>larsoft#14</u> to fix larwire distribution
 - v08_58_00 released July 16
 - <u>larpandora#9</u>: reverted some of larpandora#8
 - <u>larpandoracontent#8</u>: add-ons to larpandoracontent#7 features
 - <u>larsim#29</u>: prevent implicit downcasting from double to int in VUVHits() and VISHits()
 - <u>larsim#30</u>: first solution to <u>lssue #24600</u>, light only propagated in first cryostat
 - larsoft#15: use python 3

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LArSoft Coordination Meeting Release and Project Report



- Releases since week of July 6 (cont'd)
 - <u>v08_59_00</u> released July 23
 - larsimrad: new repository for BxDecay0 generator
 - Iarsim#28: new Sim Filter module to use sim:SimPhotonsLite to replicate behavior of FilterSimPhotonTime filter on sim::SimPhotons
 - <u>lareventdisplay#6</u>: fix calls to geometry service WireCoordinate method
 - v08_60_00 released July 30
 - <u>lardataobj#8</u>: extended recob::SpacePoint interface
 - <u>larpandoracontent#9</u>: introduces TrackInEMShower algorithm in Pandora
 - webevd#14, webevd#15: serve page before png's are processed, don't require a temp directory
 - <u>larsim#31</u>: speed-ups for generation of photon visibility library in legacy LArG4
 - <u>larana#8</u>: adaptations to use larsim#31



- Releases since week of July 6 (cont'd)
 - v08_61_00 released Aug 4
 - <u>larsim#32</u>: add simple to use truth matching utilities (from back tracker service)
 - v08_62_00 released Aug Aug 7
 - First release with Geant4 v4_10_6_p01
 - Changes in larg4, larsim and experiment code needed to adapt to new Geant4 version
 - Visualization removed from LArG4Detector service
 - v08_62_01 released Aug 14
 - <u>larreco#17</u>: protect against failure of matrix inversion for ArgoNeuT



- Releases since week of July 6 (cont'd)
 - v09_00_00 released Aug 19
 - Thread safe detector clocks and detector properties.
 - Notional start of "thread-safe LArSoft" with completion of a thread-safe production workflow
 - No SLF6 or MacOS builds
 - Breaking change!
 - See release notes for details, relevant PRs and feature branches
 - MicroBooNE production releases
 - v08_03_00_02a on July 10
 - v08_03_00_05 on July 25
 - v08_03_00_02a on July 27



- This week
 - New version of geant4reweight product (requested by Jacob Calcutt)
 - artdaq_core update to v3_06_01
 - PRs as approved

- For the future
 - We would like to drop python 2 builds
 - Comments?

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Status of PRs

- Approvals in progress
 - <u>larsim#33</u>: fix for factor of 2 difference in original NEST algorithm
 - Identified, fixed issues with units of E-field, step size, and value of LAr density
 - Waiting for L2 approval
 - <u>larbatch#9</u>: solution for <u>lssue #24839</u>, metadata extraction corrupted for Root files storing RooFit objects
 - Approved. Awaiting final test results.



Status of PRs

- Under discussion
 - Linked changes
 - <u>larsim#24</u>: Include ChargeYield service in DriftIonizationElectrons of LArVoxelReadout (opened June 8)
 - Solution identified. Awaiting update from author.
 - Iarevt#7: Including ChargeYield service (opened June 6)
 - Linked changes
 - <u>larreco#16</u>: Removing TRACS
 - <u>larpandora#10</u>: Destination of TRACS in PandoraModularShowerCreation
 - Topic of presentation today
 - <u>larcorealg#10</u>: OpDets channel number should increase with increasing coordinates
 - In discussion with author



The larsoft_build email list

- Results of CI builds sent to this list
 - Do not believe this is use much, if at all
 - Can get results from web interface
- Without objection, we intend to retire this list
 - Have sent email to the list

Are there objections?

• Send email to scisoft-team@fnal.gov



The end