



# Today's agenda and speakers

- Release and project report (Erica)
- EventWeight interface to Genie v3 (Steven Gardiner)
- Discussion of (soon to be) new LArSoft build system (Marc Mengel, Chris Green)
- AOB



### Last few weeks

- v09\_14\_00 released Jan 21, 2021
  - New features
    - <u>larpandoracontent#17</u>: introduce daughter volume tracking to prevent matching of incompatible clusters
    - <u>larpandora#15</u>: linked to above
    - <u>lardataobj#11</u>: provided for serializing art::Ptr<recob::Cluster>>
    - <u>lardata#13</u>: allow rang-for loop on associate\_groups\_with\_left() output. Add C++17 aware unit test
    - <u>larrecodnn#14</u>: Add separate label for SimChannel needed for ProtoDUNE sim
  - Bug fixes
    - <u>larreco#26</u>: include missing config in clustermodules.fcl.
    - webevd#18: fix issues with view numbers and axis labels



- Last few weeks
  - v09\_15\_00 released Jan 27
    - New features
      - <u>larg4#21</u>: link new artg4tk custom physis lists
      - <u>larg4#20</u>: add FHiCL config with standard configuration for larg4Main module
      - webevd#19: splits data to be transferred into several JSON files. Create images on demand
      - <u>larsim#59</u>: reconfigure PDFastSimPAR to remove PhotonVisibilityService and LArG4Parameters services. Allow multiple instances with different optical property configs
        - Noted that this is a step toward eliminating PVS and enabling multi-threading
    - Bug fixes
      - <u>lardataalg#21</u>: fix larproperties.fcl



- Last few weeks
  - v09\_16\_00 released Feb 4
    - First release with art 3.06
      - Feature branches for experiments in feature/team\_for\_art\_v3\_06
  - v09\_16\_01 released Feb 11
    - New features
      - webevd#20, 21, 22, 23: preserve ED settings when navigating between events. Add display of OpFlash. Add mode to show RawDigit and recob::Wires as time series
      - <u>larpandoracontent#18</u>: make use of PandoraMonitoring API
    - Bug fixes
      - <u>larrecodnn#15</u>: PointIdTrainingData written and disposed of asap. Work-around for issue #25476



### Last few weeks

- v09\_17\_00 released Feb 17
  - New features
    - <u>larrecodnn#17</u>: overhaul handling of labels
    - larpandoracontent#19: new visualization tools for MCParticles and PFOs
    - <u>larsim#60</u>: SimEnergyDeposit support in MergeSimSources
    - <u>larsim#62</u>: new toy larg4 detector in refactored larg4. New noise and response functions in SimWire\_module
    - webevd#24: Work-around to represent inf/nan in JSON
    - <u>webevd#25</u>: Serialization calls to gallery::Event made through thread-safe wrapper
    - <u>webevd#27</u>: Add MCTruth text to display
    - <u>webevd#28</u>: Fix mixmerge in traces code, and protection against inf/nan hit times
  - Bug fixes
    - <u>larreco#27</u>: fix in PFPUtils



- This week
  - Updates to nugen, nuevdb, nug4, geant4reweight, nusystematics, ...
  - Approved PRs



# Status of PRs

- Approvals in progress
  - <u>larsim#63</u>: Add DoFastComponent option to PDFastSimPAR



# Status of PRs

- Under discussion
  - <u>larcorealg#13</u>: Geometry can tell TPC closest to an optical detector (opened Nov 30, 2020)
    - Community questions arose as to exactly what questions needed to be answered
    - Meeting held. Discussion on-going.
  - <u>larsimdnn#1</u>: Check-in first photon fast simulation module based on GAN



# Other changes coming up

### Tensorflow

- Upgrading from v1 to v2.3
- Request from DUNE to do this as soon as possible
- Might have implications for other experiments, so please advise

### Ubuntu support

- A request opened recently to shift from LTS 18 to LTS 20
- Seeking feedback on plan to do this as soon as possible

Note that Ubuntu releases provided on "best effort" basis, typically only on request



# The end