

LArSoft Coordination Meeting

Release and project report

Erica Snider
on behalf of
the SciSoft team
Fermilab

November 30, 2020

Today's agenda and speakers

- Release and project report (Erica)
- Fast photon simulation based on GAN graph (Muve)
- Complications in supporting TensorFlow (Kyle Knoepfel)
- AOB

Releases

- Last week
 - No release
- This week
 - Accepted PRs

Status of PRs

- Approvals in progress
 - Linked changes to effectively disable geometry config check at run boundaries ([issue #24328](#)) (again moved from “under discussion”)
 - [larcORE#6](#) (opened Oct 7)
 - [larcOREobj#9](#) Currently failing at CI unit test phase
 - [larcOREalg#12](#)

Note: changing geometry within a job was *never* a fully supported feature -- strongly advised against trying. Jobs will now die if an obvious inconsistency is noted. But in general, there is no protection against using different versions of geometry across jobs

- [lardataobj#9](#): Restored recob::Trajectory I/O rule previously lost
 - Fixes problem reading old MicroBooNE production files
- [larg4#15](#): Configurable sparsify margin parameter for the ParticleListAction service
 - No other details provided

Status of PRs

- Approvals in progress (cont'd)
 - [larsim#55](#): Add test to run larg4...
 - Moved minimal LArTPC example from [larg4#14](#) to larsim, per request
 - [larpandoraconent#16](#): new algorithm to refine showers by using result of the PFO track/shower classification into shower growing stage
 - [larpandora#14](#): Protect against exception when looking for non-existent T0 association
 - Looks for association only if used. Avoids exceptions in modes where it is not produced.
 - No changes to outputs expected
 - [larwirecell#9](#): get plane view from Geometry service (prev hardcoded)

Status of PRs

- Under discussion
 - [larsim#54](#): Add photon fast simulation module based on GAN graph
 - To be discussed today
 - [larg4#14](#): Add minimal LArTPC example
 - Request to move to larsim completed in [larsim#55](#)
 - Linked changes
 - [larsim#24](#): Include ChargeYield service in DriftIonizationElectrons of LArVoxelReadout (opened June 8)
 - [larevt#7](#): Including ChargeYield service (opened June 6)
 - *Update: author currently working on simulation details. Will follow up on this topic within refactored larg4 in January. These PRs can be closed.*

The end