

LArSoft Coordination Meeting

Release and project report

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Today's agenda and speakers

- Release and project report (Erica)
- Changes to ParticleID data product (Herb Greenlee / Kirsty Duffy)
- Using GPU as a Service in LARSoft with the NuSonic inference client (Mike Wang)
- AOB

Releases

- Last week
 - v09_28_02 released Aug 18
 - New features
 - [larpandoracontent#31](#): new alg which refines vertex candidate positions
 - *Not yet active in any current experimental configurations*
 - *Also includes a fix where non-mva vertexing would fail when no showers present (also not active in any current experiment configurations)*
 - Bug fixes
 - [larcorealg#20](#): fix to out-of-TPC wire intersection test
 - *Addresses [issue #26127](#)*
 - *Fixes a problem in the test for wire intersections from different TPCs that occurred under certain circumstances*
 - *Updated documentation to clarify `geo::GeometryCore::WireIDsIntersect()` behavior*

Releases

- This week
 - Approved PRs

Status of PRs

- Under discussion: none
- Approvals in progress:
 - [larcorealg#21](#): geo::OpDetGeo made aware of detector orientation
 - Addresses [issue #26118](#)
 - Fixes a problem where rotations in GDML are not taken into account by Geometry service in some cases.
 - Noticed specifically for OpDetGeo in SBND and DUNE-vertical drift geometries.
- Approved: none

Status of art 3.09 migration

- Anticipated migration to art 3.09 delayed
 - Issues building with dunetpc: new compilation error in TensorFlow 2.3.1a
 - Working to understand this.
 - Also have some build issue with mysql. Are any experiments using that?
 - Plan is still to move to art 3.09 as soon as possible
 - Ready now if TensorFlow were not needed
- Latest test releases for *art* 3.09
 - v09_27_00_04 released Aug 10
 - [Release notes](#) have important comments on using mrb 5 and cetbuildtools 8
 - Minimal changes needed to CMakeList.txt files if using cetbuildtools 8
 - *Switching to cetmodules explicitly will require more extensive changes*
 - *Will discuss these in a future LCM (probably Sept 21)*
 - Build order matters
 - *mrbsetenv complains if repositories in sub-optimal order in \$MRB_SROUCE/CMakeLists.txt*
 - *Any changes to \$MRB_SOURCE requires running mrb uc AFTER mrbsetenv*

The end