

## Issues

| #     | Project         | Tracker               | Status           | Priority | Subject  | Assignee            | Updated             |
|-------|-----------------|-----------------------|------------------|----------|--|---------------------|---------------------|
| 25234 | LArSoft         | Bug                   | Closed           | Normal   | larg4 UPS product does not install source code   | Hans-Joachim Wenzel | 12/14/2020 10:26 AM |
| 25077 | gallery         | Bug                   | Closed           | Normal   | gallery::Event::getByLabel() throws an exception on empty input tag                                  | Kyle Knoepfel       | 10/20/2020 09:17 AM |
| 25069 | gallery         | Feature               | Under Discussion | Normal   | Extend gallery::Event product retrieval interface  |                     | 10/19/2020 10:19 AM |
| 25061 | mrB             | Feature               | Closed           | Normal   | Add icarusalg to mrB gitCheckout   | Lynn Garren         | 10/19/2020 10:23 AM |
| 25016 | LArSoft         | Bug                   | Closed           | Normal   | Material reflectivity not supported in (legacy) LArG4  |                     | 10/12/2020 10:37 AM |
| 24996 | mrB             | Bug                   | Closed           | Low      | Cmake warning: No project() command is present   | Lynn Garren         | 09/28/2020 10:19 AM |
| 24928 | LArSoft         | Bug                   | Closed           | Normal   | Time scale documentation moved   | Gianluca Petrillo   | 09/28/2020 10:36 AM |
| 24890 | LArSoft         | Bug                   | Closed           | High     | Full optical GEANT4 simulation not available in v09_00_00  | Kyle Knoepfel       | 09/14/2020 10:32 AM |
| 24839 | LAr Batch Tools | Bug                   | New              | Normal   | Metadata extraction is corrupted for ROOT files storing RooFit objects                               |                     | 08/21/2020 11:24 PM |
| 24834 | LArSoft         | Bug                   | Closed           | Normal   | Trigger TPC offset incorrectly reported by DetectorClocksStandard                                    |                     | 08/31/2020 10:29 AM |
| 24601 | LArSoft         | Necessary Maintenance | Accepted         | Normal   | Scintillation visibility by semi-analytic parametrization not supported for multi-cryostat detectors |                     | 07/27/2020 10:27 AM |
| 24600 | LArSoft         | Bug                   | Closed           | Urgent   | OpFastScintillation only propagates light in the first cryostats                                     | Gianluca Petrillo   | 07/27/2020 10:24 AM |
| 24494 | art             | Support               | Closed           | Normal   | art::SummedValue combining handles from different runs   | Kyle Knoepfel       | 07/10/2020 01:59 PM |
| 24477 | LArSoft         | Support               | Assigned         | Normal   | MRB does not initialise GitFlow  | Erica Snider        | 06/01/2020 10:30 AM |
| 24427 | art             | Bug                   | Closed           | Normal   | Message of exception ProductNotFound lacking information   | Kyle Knoepfel       | 07/10/2020 01:58 PM |
| 24328 | LArSoft         | Bug                   | Resolved         | Normal   | Fix Geometry service feature reloading the geometry at begin of run                                  | Gianluca Petrillo   | 01/11/2021 10:22 AM |
| 24069 | LArSoft         | Necessary Maintenance | Feedback         | Normal   | Non-standard SpaceCharge interface   |                     | 03/02/2020 10:29 AM |
| 23916 | LArSoft         | Feature               | Closed           | Normal   | Publish Doxygen tag files  | Lynn Garren         | 02/24/2020 10:26 AM |
| 23808 | canvas_root_io  | Bug                   | Closed           | Normal   | Can't load ParameterSet.h header in ROOT   | Christopher Green   | 02/10/2020 07:23 PM |
| 23669 | fhicl-cpp       | Feature               | Closed           | Normal   | Provide a FHIACL type to read an object arbitrary type from a parameter table                        | Kyle Knoepfel       | 07/14/2020 10:37 AM |
| 23668 | fhicl-cpp       | Feature               | Under Discussion | Normal   | Expose helpers for decoding and encoding data types  |                     | 12/09/2019 08:50 AM |
| 23656 | fhicl-cpp       | Bug                   | Closed           | Normal   | Parsing of value silently fails: oops  | Kyle Knoepfel       | 07/10/2020 01:58 PM |
| 23653 | fhicl-cpp       | Feature               | Under Discussion | Normal   | Add optional parameters to report an std::optional value   |                     | 12/02/2019 10:24 AM |
| 23652 | fhicl-cpp       | Bug                   | Closed           | Normal   | fhicl::OptionalSequence<T> missing hasValue()  | Kyle Knoepfel       | 03/25/2020 03:33 PM |
| 23645 | lar_ci          | Feature               | Work in progress | Normal   | test_runner pick CI_EXP_CODE from the configuration file   | Vito Di Benedetto   | 12/18/2019 05:11 PM |
| 23576 | LArSoft         | Support               | Closed           | Normal   | Issue with Clang while linking: undefined reference to `std::__1::optional<double>::optional()'      | Kyle Knoepfel       | 12/04/2019 10:42 AM |

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| 23174 | art         | Bug                   | Closed           | Normal   | Print the message of STL exceptions  | Kyle Knoepfel       | 11/14/2019 12:46 PM |
| 23133 | LArSoft     | Feature               | Closed           | Normal   | Commit e-mail subject with branch information  |                     | 08/15/2019 09:23 PM |
| 23075 | art_root_io | Bug                   | Closed           | Normal   | TFileDirectory::makeAndRegister(std::string, ...): couldn't deduce template parameter 'T'        | Kyle Knoepfel       | 10/02/2019 04:10 PM |
| 22927 | NuTools     | Bug                   | New              | Normal   | Atmospheric neutrino energy distribution for high energy range looks wrong                       |                     | 07/11/2019 07:40 PM |
| 22876 | lar_ci      | Bug                   | Closed           | Normal   | Exception while running test_runner: KeyError: 'WORKSPACE'                                       | Vito Di Benedetto   | 07/31/2019 04:03 PM |
| 22871 | dunetpc     | Bug                   | Closed           | Normal   | Failed to parse the configuration file 'subrun_wrapper.fc!': Can't find key dune_tfile_metadata  |                     | 10/21/2019 09:06 AM |
| 22746 | lar_ci      | Bug                   | Closed           | Normal   | OpenSSL error while attempting to trigger an integration test                                    | Vito Di Benedetto   | 07/31/2019 04:03 PM |
| 22628 | LArSoft     | Feature               | Closed           | Normal   | Change internal representation of sim::OnePhoton   | Gianluca Petrillo   | 06/01/2020 10:35 AM |
| 22584 | NuTools     | Support               | Feedback         | Normal   | Rescattering code  |                     | 05/15/2019 05:46 PM |
| 22574 | fhicl-cpp   | Feature               | Under Discussion | Normal   | FHiCL C++ interface for multiple choice values   |                     | 05/13/2019 10:26 AM |
| 22523 | LArSoft     | Necessary Maintenance | Feedback         | Normal   | Remove deprecated getf() members from data proxy interface                                       |                     | 05/13/2019 04:21 PM |
| 22466 | LArSoft     | Feature               | Resolved         | Normal   | Provide a LArSoft geometry example working with the new larg4                                    | Hans-Joachim Wenzel | 11/13/2020 02:44 PM |
| 22431 | LArSoft     | Bug                   | Feedback         | Normal   | Inconsistent location of wire plane reported by TPCGeo   | Gianluca Petrillo   | 05/14/2019 09:09 AM |
| 22423 | lar_ci      | Bug                   | Closed           | Normal   | Option --scan-revisions did not work so well   | Vito Di Benedetto   | 07/31/2019 04:03 PM |
| 22371 | art         | Bug                   | Closed           | Low      | TimeTracker summary wrong when only one event in the job   | Kyle Knoepfel       | 04/29/2019 11:58 AM |
| 22357 | art         | Feature               | Accepted         | Low      | Allow a placeholder for main FHiCL configuration name in output files (RootOutput, TFileService) |                     | 04/15/2019 10:26 AM |
| 22333 | LArSoft     | Bug                   | Closed           | Normal   | Error printed when pushing into Redmine GIT repositories   | Vito Di Benedetto   | 04/22/2019 10:36 AM |
| 22276 | LArSoft     | Feature               | Closed           | Normal   | Include guideline_sl in LArSoft distribution   | Lynn Garren         | 04/25/2019 03:05 PM |
| 22259 | mrb         | Necessary Maintenance | Closed           | Normal   | mrb newProduct needs some updates  | Lynn Garren         | 05/06/2019 10:21 AM |
| 21327 | LArSoft     | Feature               | Closed           | Low      | Report the target branch in subject of committing emails   | Lynn Garren         | 01/03/2019 01:47 PM |
| 21185 | NuTools     | Feature               | New              | Normal   | Atmospheric flux rotation by default   |                     | 10/18/2018 06:48 PM |
| 21017 | cet-is      | Feature               | Assigned         | Normal   | Enable Boosted Dark Matter code in GENIE 3   | Lynn Garren         | 10/04/2018 06:07 PM |
| 20507 | LArSoft     | Support               | Closed           | Normal   | Should dictionary building in lardataobj happen in parallel?                                     |                     | 08/07/2018 12:51 PM |
| 20221 | LArSoft     | Bug                   | Closed           | Normal   | larsim repository is >2GB big  | Erica Snider        | 08/06/2020 03:24 PM |
| 20065 | LArSoft     | Bug                   | Assigned         | Normal   | Documentation of momentum calculator not accessible  | Tingjun Yang        | 06/04/2018 11:07 AM |
| 20029 | LArSoft     | Necessary Maintenance | Under Discussion | Normal   | SimpleBoundary() should be moved from DetectorProperties to LArProperties                        |                     | 08/09/2019 02:52 PM |

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| 19882 | art           | Bug                   | Closed   | Low      | EmptyEvent documentation does not show the configuration key "timestampPlugin"  | Kyle Knoepfel     | 05/04/2018 11:39 AM |
| 19551 | Fermi Redmine | Bug                   | New      | Normal   | Regression: "count" style not supported any more  |                   | 04/04/2018 10:34 AM |
| 19539 | LArSoft       | Necessary Maintenance | Assigned | Normal   | Restore tensorflow-dependent code disabled for support to Clang   | Christoph Alt     | 04/20/2018 06:56 AM |
| 19494 | LArSoft       | Necessary Maintenance | Accepted | Normal   | Restore fuzzyCluster to a reasonable memory usage   |                   | 04/02/2018 10:19 AM |
| 19490 | art           | Feature               | Closed   | Normal   | Request for a new art release   | Kyle Knoepfel     | 04/03/2018 09:06 AM |
| 19476 | LArSoft       | Necessary Maintenance | Accepted | Normal   | Workaround for GenVector classes not being constexpr  |                   | 03/26/2018 10:36 AM |
| 19474 | LArSoft       | Necessary Maintenance | Accepted | Normal   | Workaround for Clang bug on array initialisation  |                   | 03/26/2018 10:35 AM |
| 19446 | LArSoft       | Feature               | Closed   | Normal   | DetectorClocksStandard should initialise its trigger and beam times by itself   | Paul Russo        | 02/25/2019 06:29 AM |
| 19431 | SBND code     | Necessary Maintenance | Assigned | Normal   | Remove BackTrackerService from reconstruction configuration files when it's not needed any more                                       | Dominic Barker    | 03/19/2018 11:49 AM |
| 19419 | LArSoft       | Feature               | Accepted | Normal   | Move initialisation of CorsikaGen from constructor to beginJob()  |                   | 03/19/2018 10:51 AM |
| 19417 | dunetpc       | Bug                   | Closed   | Normal   | protoDUNE simulation services configure LArPropertiesService and LArG4Parameters differently than the other protoDUNE service bundles | Tingjun Yang      | 05/13/2018 10:04 AM |
| 19413 | LArSoft       | Necessary Maintenance | Closed   | Normal   | Hard-coded scintillation photon energy  |                   | 08/07/2019 04:07 PM |
| 19412 | LArSoft       | Bug                   | Assigned | Normal   | EMShowerAlg requires Backtracker service for no reason  | Michael Wallbank  | 03/19/2018 10:57 AM |
| 19386 | LArSoft       | Bug                   | Closed   | Normal   | raw::OpDetPulse does not have accessors to its waveform   | Saba Sehrish      | 01/17/2019 02:41 PM |
| 19359 | LArSoft       | Support               | Closed   | Urgent   | Special release for SBN workshop (SBND)   | Lynn Garren       | 04/11/2018 09:03 AM |
| 19353 | art           | Bug                   | Closed   | Normal   | art does not perform config dumping correctly when using a URI as input file  | Kyle Knoepfel     | 04/02/2018 04:06 PM |
| 19345 | LArSoft       | Bug                   | Closed   | Normal   | Module descriptions not printed any more  | Gianluca Petrillo | 03/29/2018 01:31 PM |
| 19343 | LArSoft       | Bug                   | Feedback | Normal   | Hit finding at the edge of a waveform gives inconsistent results  | Andrzej Szelc     | 05/30/2018 12:04 PM |
| 19334 | NuTools       | Bug                   | Closed   | Normal   | GenieHelper gets stuck when no flux file is available   | Robert Hatcher    | 02/27/2019 12:16 PM |
| 19323 | LArSoft       | Necessary Maintenance | Closed   | Normal   | Port LArSoft code to use the association algorithms in canvas   | Gianluca Petrillo | 03/22/2018 01:33 PM |
| 19207 | lar_ci        | Bug                   | New      | Low      | The "VALIDATION ERROR" string in result.log is misleading   |                   | 03/02/2018 01:20 PM |
| 19205 | SBND code     | Necessary Maintenance | Closed   | Normal   | Update the geometry description wiki page   | Gianluca Petrillo | 03/22/2018 01:33 PM |
| 19138 | LArSoft       | Necessary Maintenance | Accepted | Normal   | Update wiki pages to reflect the new repository structure   |                   | 03/12/2018 10:34 AM |
| 19097 | lar_ci        | Feature               | Closed   | Low      | Have a special name for the test suite in charge of generating reference files  | Vito Di Benedetto | 03/20/2018 08:03 PM |

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| 19096 | lar_ci                     | Feature               | Closed   | Normal   | Reference file paths expressed with variables are not fully supported by the C.I. system                 | Vito Di Benedetto | 03/20/2018 08:03 PM |
| 19073 | SBND code                  | Necessary Maintenance | Closed   | Normal   | Have a system to test that the gallery example still compiles  | Gianluca Petrillo | 05/04/2018 04:30 PM |
| 19068 | lar_ci                     | Feature               | Closed   | Normal   | Uninformative messages from test_runner  | Vito Di Benedetto | 03/20/2018 08:03 PM |
| 19065 | LAr-Continuous-Integration | Bug                   | Closed   | Normal   | Claim this project as obsolete and link to the recommended one in the "overview" page                    | Erica Snider      | 08/15/2019 02:55 PM |
| 18998 | uBooNE code                | Necessary Maintenance | New      | Normal   | Verify the aggregation criteria for data product MuCS::MuCSDTOffset                                      |                   | 02/14/2018 06:28 PM |
| 18997 | LArSoft                    | Necessary Maintenance | Closed   | Normal   | Verify that the run and subrun level data products are written during the proper art phase               | Gianluca Petrillo | 03/07/2018 01:23 PM |
| 18996 | canvas                     | Bug                   | Closed   | Normal   | Product aggregation logic does not correctly act on full-run range products                              | Kyle Knoepfel     | 04/03/2018 09:30 AM |
| 18980 | LArSoft                    | Feature               | Accepted | Normal   | Failure of FindManyInChainP when the associated products haven't been read yet                           |                   | 04/16/2018 11:23 AM |
| 18979 | art                        | Feature               | Closed   | Normal   | Retrieve art::InputTag by art::ProductID   | Kyle Knoepfel     | 04/03/2018 08:38 AM |
| 18882 | art                        | Feature               | Closed   | Normal   | Configuration validation in a ResultsProducer module   | Kyle Knoepfel     | 04/03/2018 08:38 AM |
| 18826 | LArSoft                    | Bug                   | Assigned | Normal   | detinfo::DetectorClocksStandard::ExternalClock() clock not initialized                                   | Kazuhiro Terao    | 02/05/2018 10:37 AM |
| 18797 | LArSoft                    | Support               | Assigned | Normal   | Redesign of the timing associated to the trigger   | Kyle Knoepfel     | 05/02/2018 12:38 PM |
| 18796 | LArSoft                    | Milestone             | Closed   | Normal   | Adopt art 2.10   |                   | 03/15/2018 01:31 PM |
| 18769 | art                        | Feature               | Closed   | Low      | Uniform art::Assns iterator interface  | Kyle Knoepfel     | 01/31/2019 02:10 PM |
| 18738 | art                        | Bug                   | Closed   | Normal   | PtrMaker can create pointers only for std::vector data products  | Kyle Knoepfel     | 01/23/2018 12:03 PM |
| 18724 | LArSoft                    | Feature               | Assigned | Normal   | Have raw::RawDigit report their time reference frame   | Saba Sehrish      | 04/10/2018 10:48 AM |
| 18723 | LArSoft                    | Bug                   | Accepted | Normal   | Inconsistent information in GENIE MCTruth record   | Robert Hatcher    | 01/31/2018 12:47 PM |
| 18716 | NuTools                    | Feature               | Closed   | Normal   | G4Helper: store the index of the true particle within MCTruth in the primary particle information        |                   | 04/13/2018 03:42 PM |
| 18637 | cetbuildtools              | Feature               | Closed   | Normal   | Provide a macro for installing documentation together with the source                                    | Lynn Garren       | 01/17/2018 09:36 PM |
| 18583 | LArSoft                    | Bug                   | Assigned | Normal   | Inconsistent documentation of geo::GeometryCore::NearestWireID() and geo::GeometryCore::NearestChannel() | Saba Sehrish      | 09/19/2019 03:09 PM |
| 18387 | ups                        | Bug                   | Closed   | Normal   | UPS 6: "slf7.x86_64.e14.debug directory not found: SETUP ABORTED"  | Marc Mengel       | 01/11/2018 12:10 PM |
| 18378 | lar_ci                     | Feature               | Closed   | Normal   | Add a LArSoft-based workflow pulling in nusimdata and nutools sources                                    | Vito Di Benedetto | 04/27/2018 01:37 PM |
| 18377 | SBND code                  | Necessary Maintenance | Closed   | Normal   | Update UPS in CVMFS to version 6.x   | Gianluca Petrillo | 12/29/2017 04:00 PM |
| 18302 | LArSoft                    | Idea                  | Closed   | Normal   | Provide an easy way to find out the larsoftobj version corresponding to a larsoft version                | Lynn Garren       | 01/17/2018 09:48 PM |
| 18292 | lar_ci                     | Feature               | Closed   | Normal   | Unlock the number of events processed when regenerating reference files                                  | Bruno Coimbra     | 03/20/2018 08:10 PM |
| 18283 | LArSoft                    | Meeting               | Closed   | Normal   | Define a policy for LArSoft art-independent code and repositories  | Gianluca Petrillo | 11/28/2017 11:49 AM |

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| 18281 | LArSoft        | Necessary Maintenance | Closed   | Normal   | Move dumper algorithms in a art-independent repository                                 | Saba Sehrish       | 01/17/2019 02:44 PM |
| 18270 | lar_ci         | Feature               | Closed   | Normal   | Have test_runner find the test configuration file from the source directory            | Bruno Coimbra      | 03/20/2018 08:10 PM |
| 18261 | SBND code      | Bug                   | New      | Normal   | Investigate Geant4 warning about auxiliary detectors being added twice                 |                    | 11/14/2017 11:12 AM |
| 18220 | LArSoft        | Necessary Maintenance | Closed   | Normal   | Remove MemoryPeakReporter service from lardata   | Gianluca Petrillo  | 12/21/2017 11:23 AM |
| 18199 | LArSoft        | Necessary Maintenance | Closed   | Normal   | Remove unmoveable MCParticle workaround  | Gianluca Petrillo  | 04/27/2018 01:41 PM |
| 18178 | lar_ci         | Bug                   | Closed   | Normal   | Template test script does not support jobs with no art ROOT output                     | Vito Di Benedetto  | 12/18/2017 05:50 PM |
| 18172 | lar_ci         | Bug                   | Assigned | Low      | Confusing error report for tests with failing dependences                              | Bruno Coimbra      | 11/29/2017 04:25 PM |
| 18153 | art            | Feature               | Closed   | Low      | Have FileDumperOutput print the ID of event being printed                              | Kyle Knoepfel      | 01/31/2019 02:15 PM |
| 18152 | art            | Feature               | Assigned | Normal   | Have FileDumperOutput output into messagefacility streams                              | Christopher Green  | 11/20/2017 11:28 AM |
| 18137 | LArSoft        | Necessary Maintenance | Closed   | Normal   | The method geo::GeometryCore::WirePitch() with two wires as argument should be removed | Paul Russo         | 09/20/2018 02:59 PM |
| 18136 | LArSoft        | Necessary Maintenance | Closed   | Low      | Fix design flaw in geo::ChannelMapAlg interface  | Paul Russo         | 09/20/2018 03:11 PM |
| 18099 | SBND code      | Task                  | Closed   | High     | Build sbndcode for OSX 10.12 (Sierra) instead of 10.10 (Yosemite)                      | Thomas Brooks      | 02/28/2018 01:09 PM |
| 18094 | LArSoft        | Bug                   | Closed   | Normal   | tca::PrimaryID() can access invalid memory   | Bruce Baller       | 07/12/2018 11:05 AM |
| 18073 | SBND code      | Bug                   | Closed   | Normal   | SBND UPS database (in CVMFS) has a UPS setup script but no UPS product                 | Gianluca Petrillo  | 12/29/2017 04:01 PM |
| 18061 | SBND code      | Idea                  | Assigned | Normal   | Remove the compiler qualifier from sbndcode  | Thomas Brooks      | 11/10/2017 02:18 PM |
| 18057 | ICARUS LArSoft | Bug                   | Rejected | Normal   | Active volume does not reach the cathode   |                    | 04/28/2020 02:59 PM |
| 18056 | SBND code      | Bug                   | Assigned | High     | Active volume does not reach the cathode   | Gustavo Valdivieso | 10/27/2017 11:38 AM |
| 18043 | art            | Support               | Closed   | Normal   | UPS GCC 6.3.0 include configuration borked on OSX 10.12 (Sierra)                       | Lynn Garren        | 11/06/2017 11:25 AM |
| 18003 | LArSoft        | Bug                   | Assigned | Normal   | lariov::SIOVChannelStatusProvider depends on art                                       | Brandon Eberly     | 06/25/2018 10:47 AM |
| 18002 | LArSoft        | Necessary Maintenance | Closed   | Normal   | Missing override directives in detinfo::LArPropertiesStandard                          | Lynn Garren        | 01/17/2018 09:48 PM |
| 18001 | LArSoft        | Bug                   | Closed   | Normal   | lar::ProviderPack should accept objects of classes derived from the required ones      | Gianluca Petrillo  | 04/27/2018 01:42 PM |
| 17964 | fhicl-cpp      | Feature               | Accepted | Normal   | Conditional configuration objects should be able to report if they were enabled        |                    | 08/20/2018 10:00 AM |
| 17933 | fhicl-cpp      | Feature               | Accepted | Low      | Have fhicl-expand print markings for start and end of inclusion                        |                    | 10/23/2017 11:36 AM |
| 17926 | LArSoft        | Necessary Maintenance | Closed   | High     | Implement a better name for the track proxy accessor to the unfitted trajectory.       | Gianluca Petrillo  | 11/09/2017 11:38 AM |
| 17893 | fhicl-cpp      | Necessary Maintenance | Closed   | Normal   | Make error message for PROLOG section not allowed be clearer                           | Christopher Green  | 10/18/2017 01:46 PM |

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| 17794 | LArSoft       | Support               | Assigned | Normal   | Make Doxygen show full paths for header #include directives  | Lynn Garren       | 10/02/2017 10:42 AM |
| 17752 | art           | Support               | Closed   | Normal   | art 2.8.3 generating a bus error under GDB (SLF6)  |                   | 10/02/2017 11:53 AM |
| 17707 | SBND code     | Necessary Maintenance | Closed   | High     | Update standard configuration of MemoryTracker service   | Gianluca Petrillo | 10/17/2017 03:57 PM |
| 17672 | LArSoft       | Necessary Maintenance | Closed   | Normal   | Remove deprecated lar::PtrMaker alias  | Gianluca Petrillo | 11/14/2017 02:54 PM |
| 17407 | art           | Feature               | Accepted | Normal   | Configuration description of module  |                   | 09/17/2019 02:16 PM |
| 17360 | LArSoft       | Task                  | Resolved | Normal   | Provide a tool to facilitate the creation of track objects fulfilling the track requirements               | Giuseppe Cerati   | 09/13/2017 02:25 PM |
| 17296 | cetbuildtools | Feature               | Closed   | Normal   | Improve diagnostics of cmake macro errors: cet_test  | Christopher Green | 08/02/2017 11:04 AM |
| 17290 | LArSoft       | Necessary Maintenance | Closed   | Normal   | Remove remnants of migration of directories into larXXXobj repositories                                    | Lynn Garren       | 08/13/2018 02:26 PM |
| 17279 | LArSoft       | Idea                  | Assigned | Normal   | Create an example about how to produce a custom ROOT tree out of LArSoft data                              | Saba Sehrish      | 10/12/2017 02:46 PM |
| 17278 | LArSoft       | Idea                  | Closed   | Normal   | Add an example on how to create data products of a new type  | Gianluca Petrillo | 02/19/2018 02:38 PM |
| 17234 | cetbuildtools | Support               | Closed   | Normal   | Unit test scripts can't use bash in Ubuntu   |                   | 08/01/2017 01:35 PM |
| 17209 | LArSoft       | Necessary Maintenance | Closed   | Normal   | LArSoft wiki documentation about creating associations needs maintenance                                   | Katherine Lato    | 09/20/2017 02:41 PM |
| 17194 | LArSoft       | Necessary Maintenance | Closed   | Normal   | Create a location for art-independent service provider detinfo::DetectorClocks                             | Lynn Garren       | 06/07/2018 02:31 PM |
| 17179 | LArSoft       | Feature               | Closed   | Normal   | Make standard detector clocks available in gallery environment   | Saba Sehrish      | 01/17/2019 02:44 PM |
| 17177 | LArSoft       | Feature               | Closed   | Normal   | Add backtracer (LArSoft service) information for the reconstruction-truth matching into GALLERY framework. | Jason Stock       | 02/21/2018 08:30 AM |
| 17099 | LArSoft       | Feature               | Closed   | Normal   | Make standard geometry available in gallery environment  | Gianluca Petrillo | 07/26/2017 04:14 PM |
| 17098 | art           | Feature               | Assigned | Low      | Support the retrieval of a data product from a product ID in gallery::Event                                |                   | 12/03/2019 12:41 PM |
| 17087 | art           | Feature               | Closed   | Normal   | Hermetic error message on mismatching product ID and data type   | Kyle Knoepfel     | 08/30/2017 04:02 PM |
| 17084 | art           | Necessary Maintenance | Accepted | Low      | Documentation of messagefacility on Redmine wiki is very outdated  |                   | 07/05/2017 11:56 AM |
| 17047 | LArSoft       | Necessary Maintenance | Assigned | Normal   | Floating Point Exceptions  | Lynn Garren       | 07/10/2017 10:43 AM |
| 17037 | art           | Feature               | Closed   | Normal   | Expose enable_if_type_exists   | Kyle Knoepfel     | 08/02/2017 11:04 AM |
| 17008 | art           | Necessary Maintenance | Closed   | Normal   | FindOneP: document what happens when asking for the "B" pointer to an unassociated "A"                     | Christopher Green | 02/13/2018 01:00 PM |
| 16812 | LArSoft       | Necessary Maintenance | Resolved | Normal   | Remove DUNE-specific code from GeometryGeo   | Saba Sehrish      | 03/11/2019 10:23 AM |
| 16803 | LArSoft       | Necessary Maintenance | Closed   | Normal   | Updates to event display service classes for art 2.7   | Tingjun Yang      | 06/14/2017 10:44 AM |
| 16778 | LArSoft       | Bug                   | Resolved | Normal   | Memory deallocation error running MicroBooNE reconstruction  | Tracy Usher       | 06/09/2017 04:00 PM |

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| 16521 | LArSoft     | Necessary Maintenance | Closed   | Normal   | Assess if LArSoft can cope with art proposal of skipping PostXxx callbacks                          | Saba Sehrish      | 01/17/2019 02:42 PM |
| 16373 | LArSoft     | Feature               | Closed   | Normal   | Add a random stream specific for ionisation and scintillation calculations in LArG4                 |                   | 01/28/2019 01:28 PM |
| 16208 | LArSoft     | Bug                   | Closed   | Normal   | DumpMCTruth module crashes with a segmentation fault  | Gianluca Petrillo | 06/14/2017 01:42 PM |
| 16118 | dunetpc     | Bug                   | Closed   | Normal   | Some DUNE 35t tests exercise an outdated geometry   | Tingjun Yang      | 04/18/2017 07:26 PM |
| 16113 | LArSoft     | Bug                   | Closed   | Normal   | ProviderList test fails in larcore  | Gianluca Petrillo | 04/17/2017 11:24 AM |
| 16038 | uBooNE code | Bug                   | Closed   | Normal   | SpaceCharge service provider does not behave correctly when corrections are disabled                | Gianluca Petrillo | 06/14/2017 01:42 PM |
| 16031 | LArSoft     | Task                  | Closed   | Normal   | Introduce a proper view to describe ICARUS wire planes  | Wesley Ketchum    | 08/30/2017 03:22 PM |
| 16015 | dunetpc     | Bug                   | Closed   | Normal   | Dual phase detector geometry dunetpc/gdml/protodunedphase.gdml not correctly loaded                 | Tingjun Yang      | 06/14/2017 01:52 PM |
| 15916 | lar_ci      | Feature               | Closed   | Normal   | Generate and recover core files   | Vito Di Benedetto | 07/07/2017 06:57 PM |
| 15851 | uBooNE code | Bug                   | New      | Normal   | Test PropTest uses non-reproducible random stream   |                   | 03/13/2017 03:08 PM |
| 15781 | LArSoft     | Necessary Maintenance | Closed   | Normal   | Move raw digit dumper to lardata repository   | Gianluca Petrillo | 10/27/2017 04:12 PM |
| 15746 | LArSoft     | Feature               | Assigned | Low      | Provide module-independent ionization transportation function                                       | William Seligman  | 11/16/2017 10:54 AM |
| 15737 | LArSoft     | Necessary Maintenance | Closed   | Low      | Update the name of DUNE spokesperson in LArSoft.org   | Katherine Lato    | 03/16/2017 10:36 AM |
| 15733 | LArSoft     | Necessary Maintenance | Assigned | Normal   | Add geometry tests in the integration test  | Wesley Ketchum    | 03/06/2017 10:30 AM |
| 15731 | LArSoft     | Task                  | Closed   | Normal   | Adapt a hit finding algorithm and module to support asymmetric pulses in not-deconvoluted waveforms | Christoph Alt     | 10/11/2018 11:55 AM |
| 15730 | LArSoft     | Task                  | Assigned | Normal   | Verify that the wire and optical calibration module supports arbitrary drift direction.             | Christoph Alt     | 05/08/2018 09:47 AM |
| 15729 | LArSoft     | Task                  | Assigned | Normal   | Update the reconstruction algorithms to support arbitrary drift direction                           | Christoph Alt     | 10/11/2018 11:55 AM |
| 15728 | LArSoft     | Task                  | Assigned | Normal   | Update event display to support arbitrary drift direction   | Christoph Alt     | 05/08/2018 09:46 AM |
| 15727 | LArSoft     | Task                  | Closed   | Normal   | Update simulation to support arbitrary drift direction  | Christoph Alt     | 10/11/2018 11:48 AM |
| 15688 | LArSoft     | Task                  | Closed   | Normal   | Extend wire sorting to accommodate wires parallel to z direction                                    | Gianluca Petrillo | 07/26/2017 04:14 PM |
| 15671 | SBND code   | Necessary Maintenance | New      | Normal   | Update job submission documentation   |                   | 02/24/2017 06:47 PM |
| 15670 | uBooNE code | Bug                   | New      | Normal   | SimWireMicroBooNE results are not reproducible  |                   | 02/24/2017 05:33 PM |
| 15587 | fhicl-cpp   | Feature               | Closed   | Low      | Please add a fhicl::Comment(std::string) constructor  | Kyle Knoepfel     | 04/26/2017 11:13 AM |
| 15546 | art         | Support               | Assigned | Normal   | cetskelgen help should have one or two complete command line examples                               | Christopher Green | 02/20/2017 11:19 AM |
| 15525 | LArSoft     | Necessary Maintenance | Closed   | Normal   | Removal of an exception category in art 2.06  |                   | 06/12/2017 02:12 PM |

| #     | Project                               | Tracker               | Status   | Priority | Subject   | Assignee          | Updated             |
|-------|---------------------------------------|-----------------------|----------|----------|---|-------------------|---------------------|
| 15474 | cet-is                                | Feature               | Closed   | Normal   | pullProducts pulling only products that are not yet available   |                   | 02/06/2017 07:11 PM |
| 15453 | LArSoft                               | Necessary Maintenance | Assigned | Normal   | Remove legacy data members from recob::Track  | Giuseppe Cerati   | 02/06/2017 10:29 AM |
| 15446 | LArSoft                               | Necessary Maintenance | Closed   | Normal   | BezierTrack should be removed from LArSoft  | Gianluca Petrillo | 02/19/2018 02:38 PM |
| 15289 | LArSoft                               | Necessary Maintenance | Accepted | Low      | Pointless __GCCXML__ in LArSoft data products   |                   | 01/09/2018 02:52 PM |
| 15169 | art                                   | Idea                  | Accepted | Normal   | Support splitting data products by schema evolution   |                   | 01/23/2017 11:20 AM |
| 15131 | LArSoft                               | Bug                   | Closed   | Normal   | LArG4: diffusion causes errors in SpaceCharge computation   | Gianluca Petrillo | 06/14/2017 01:34 PM |
| 15127 | uBooNE code                           | Bug                   | New      | Normal   | SpaceChargeService service is configured with the wrong name  |                   | 01/12/2017 06:28 PM |
| 15039 | cetbuildtools                         | Bug                   | Closed   | Normal   | checkClassVersion fails to parse valid XML  | Christopher Green | 02/07/2017 03:22 PM |
| 15016 | art                                   | Feature               | Closed   | Low      | A method in art::Provenance to return an art::InputTag  | Kyle Knoepfel     | 05/25/2017 09:18 AM |
| 14964 | LArSoft                               | Bug                   | Assigned | Normal   | OpFlashAlg incompatible with multi-TPC detectors  | Wesley Ketchum    | 10/18/2017 09:02 AM |
| 14801 | canvas                                | Feature               | Closed   | Normal   | Association query objects should not ignore non-dereferenceable pointers given as input               | Christopher Green | 02/07/2017 03:22 PM |
| 14800 | LArSoft                               | Bug                   | Closed   | High     | Memory leak running LArG4   | Gianluca Petrillo | 01/11/2017 03:34 PM |
| 14786 | LArSoft                               | Feature               | Rejected | Normal   | Rediscuss the content of recob::Track   | Erica Snider      | 01/05/2017 01:55 PM |
| 14763 | canvas                                | Bug                   | Closed   | Normal   | FindMany silently ignores associations to non-available products                                      | Christopher Green | 02/09/2017 09:19 AM |
| 14705 | LArSoft                               | Task                  | Closed   | Normal   | Preparatory work for drift direction support  | Gianluca Petrillo | 10/12/2017 11:44 AM |
| 14704 | LArSoft                               | Necessary Maintenance | Closed   | Normal   | Resolve deprecation of geo::PlaneGeo::SignalType()  | Gianluca Petrillo | 12/13/2016 03:37 PM |
| 14406 | LArSoft                               | Bug                   | Closed   | Normal   | Part of the migration scripts are broken after moving them into directories                           | Lynn Garren       | 01/05/2017 11:13 AM |
| 14384 | LArSoft                               | Bug                   | Closed   | Normal   | Copy of the Geometry object does not behave as the original one                                       | Gianluca Petrillo | 10/27/2017 04:12 PM |
| 14366 | LArSoft                               | Task                  | Closed   | Normal   | Geometry wire intersection computation is not interoperable with respect to arbitrary drift direction | Gianluca Petrillo | 10/12/2017 11:44 AM |
| 14365 | LArSoft                               | Bug                   | Closed   | Normal   | Plane geometry object hosts readout information   | Gianluca Petrillo | 11/29/2016 03:41 PM |
| 14364 | LArSoft                               | Feature               | Closed   | Normal   | Build a geometry infrastructure for support of arbitrary drift direction                              | Gianluca Petrillo | 10/12/2017 11:44 AM |
| 14363 | LArSoft                               | Milestone             | Assigned | Normal   | Support detectors with drift direction different than x axis  | Christoph Alt     | 10/11/2018 11:55 AM |
| 14348 | LArSoft                               | Bug                   | Resolved | High     | Conflict between DUNE and MicroBooNE code   | Matthew Thiesse   | 11/07/2016 10:28 AM |
| 14282 | LArSoft                               | Task                  | Accepted | Normal   | Design an interface for access of reconstructed particle hierarchy ("particle flow") information      |                   | 01/09/2018 02:53 PM |
| 14281 | LArSoft                               | Task                  | Accepted | Normal   | Provide an interface for access of reconstructed track information                                    |                   | 01/09/2018 02:53 PM |
| 14268 | IFDH Art interface                    | Feature               | Feedback | Normal   | Update IFDH service to current art standards  | Christopher Green | 02/27/2019 10:29 AM |
| 14265 | LArSoft                               | Task                  | Rejected | Normal   | Provide an interface for access of reconstructed cluster information                                  | Gianluca Petrillo | 08/02/2017 02:58 PM |
| 14239 | IF Data Handling Client Tools (ifdhc) | Support               | Closed   | Normal   | What happens on IFDH command failure?   |                   | 02/09/2017 05:02 PM |



| #     | Project         | Tracker               | Status   | Priority | Subject   | Assignee            | Updated             |
|-------|-----------------|-----------------------|----------|----------|---|---------------------|---------------------|
| 14190 | LArSoft         | Bug                   | Closed   | Normal   | BackTracker emits error "failed to get handle to simbc::MCParticle from largeant, return"   | Gianluca Petrillo   | 11/02/2016 02:23 PM |
| 14168 | LArSoft         | Necessary Maintenance | Closed   | Normal   | Update LArSoft repository list documentation  | Lynn Garren         | 02/27/2017 10:49 AM |
| 14138 | LArSoft         | Necessary Maintenance | Closed   | Normal   | Move DumpTracks and DumpClusters together with the other dumpers                            | Gianluca Petrillo   | 02/03/2017 11:05 AM |
| 14085 | LArSoft         | Bug                   | Closed   | Normal   | Memory leak running LArG4 with NEST   | Gianluca Petrillo   | 11/02/2016 02:21 PM |
| 14061 | LArSoft         | Task                  | Rejected | Normal   | Provide an interface to access a complete reconstruction of the event                       | Gianluca Petrillo   | 08/03/2017 01:33 PM |
| 14060 | LArSoft         | Task                  | Closed   | Normal   | Provide ways to navigate associated data products in a seamless way                         | Gianluca Petrillo   | 10/27/2017 04:12 PM |
| 14059 | LArSoft         | Task                  | Closed   | Normal   | Provide means to extend data product information  | Gianluca Petrillo   | 10/27/2017 04:12 PM |
| 14048 | LArSoft         | Task                  | Closed   | Normal   | Provide a uniform recommendation for physic vector data structures in LArSoft data products | Gianluca Petrillo   | 10/11/2017 02:19 PM |
| 14047 | LArSoft         | Milestone             | Closed   | Normal   | Data product review ("phase II")  | Gianluca Petrillo   | 10/11/2017 02:28 PM |
| 14013 | LArSoft         | Bug                   | Closed   | Normal   | DatabaseUtil silently accepts the lack of password file                                     | Gianluca Petrillo   | 10/22/2016 02:05 AM |
| 13964 | art             | Necessary Maintenance | Closed   | Normal   | Documentation on how to fill classes.h files  |                     | 10/03/2016 11:26 AM |
| 13797 | LArSoft         | Bug                   | Closed   | Normal   | Particle flow output from PMTrackMaker with unexpected tree structure                       | Dorota Stefan       | 05/02/2018 09:40 AM |
| 13777 | NuSimData       | Bug                   | New      | Normal   | MCTruth::Add should have its argument constant  |                     | 09/06/2016 04:03 PM |
| 13750 | LArSoft         | Bug                   | Closed   | Low      | CORSIKAGen too verbose  | Gianluca Petrillo   | 10/03/2016 10:15 AM |
| 13718 | LArSoft         | Bug                   | Resolved | Normal   | MCRecoPart uses non-portable coordinate system  | Saba Sehrish        | 03/11/2019 11:03 AM |
| 13661 | mrB             | Bug                   | Accepted | Normal   | mrB newProduct templates are not up to date   |                     | 08/24/2016 02:13 PM |
| 13563 | LArSoft         | Necessary Maintenance | Rejected | Normal   | Obsolete LArSoft code   |                     | 09/20/2018 03:31 PM |
| 13560 | LArSoft         | Support               | Closed   | Normal   | Replace LArG4Parameters service with a data product   | Hans-Joachim Wenzel | 11/14/2019 01:35 PM |
| 13530 | mrB             | Bug                   | Closed   | Normal   | Conflict messages from UPS setup are less than helpful                                      | Lynn Garren         | 09/06/2016 01:21 PM |
| 13513 | LArSoft         | Bug                   | Closed   | Normal   | Broken FHiCL configuration (was: Bo configuration broken)                                   | Gianluca Petrillo   | 10/03/2016 10:15 AM |
| 13495 | Fermi Redmine   | Bug                   | New      | Normal   | The style of h3 is less prominent than the one of h4  |                     | 08/08/2016 06:58 PM |
| 13477 | LArSoft         | Necessary Maintenance | Closed   | Normal   | Boost unit test interface changed   | Gianluca Petrillo   | 10/03/2016 10:15 AM |
| 13464 | messagefacility | Bug                   | Closed   | High     | Message facility initialisation with "SingleThread" fails                                   | Kyle Knoepfel       | 08/09/2016 08:20 AM |
| 13442 | uBooNE code     | Necessary Maintenance | New      | Normal   | Outdated specification for data product dictionary  |                     | 08/04/2016 02:49 PM |
| 13329 | LArSoft         | Bug                   | Closed   | Normal   | ROOT 6 emits a load of "errors" when running GENIE+Corsika simulation                       | Robert Hatcher      | 12/01/2017 12:06 PM |
| 13328 | SBND code       | Bug                   | New      | Normal   | Neutron capture not visible in LArG4 (on behalf of Ivan Lepetic)                            |                     | 07/22/2016 03:47 PM |
| 13276 | LArSoft         | Feature               | Accepted | Normal   | PhotonVisibilityService should be factorised  |                     | 03/29/2018 01:43 PM |

| #     | Project       | Tracker               | Status   | Priority | Subject  | Assignee          | Updated             |
|-------|---------------|-----------------------|----------|----------|--|-------------------|---------------------|
| 13275 | art           | Feature               | Closed   | Normal   | Disabling fast cloning on data products with updated checksum                                      | Paul Russo        | 08/18/2016 08:55 AM |
| 13274 | art           | Bug                   | Accepted | Normal   | Some dead links in art wiki: ROOT schema evolution   |                   | 07/18/2016 11:24 AM |
| 13117 | LArSoft       | Bug                   | Closed   | Normal   | Inline documentation for RemovelsolatedSpacePoints example does not appear in LArSoft doxygen page | Gianluca Petrillo | 10/03/2016 10:15 AM |
| 13100 | LArSoft       | Necessary Maintenance | Closed   | Normal   | Update AnalysisExample   | Gianluca Petrillo | 10/03/2016 10:15 AM |
| 13029 | SBND code     | Bug                   | Closed   | Normal   | Geometry tests fail  |                   | 10/25/2017 06:23 PM |
| 12980 | SBND code     | Necessary Maintenance | New      | Normal   | art_file_catalog configuration should be removed   |                   | 06/21/2016 07:56 PM |
| 12979 | SBND code     | Bug                   | Closed   | Normal   | Bug upstream on GausHitFinder module requires a temporary fix in SBND configuration                | Gianluca Petrillo | 09/26/2017 05:37 PM |
| 12978 | LArSoft       | Bug                   | Closed   | Normal   | GausHitFinder requires algorithm configuration even when it does not use it                        | Gianluca Petrillo | 07/19/2016 04:25 PM |
| 12964 | Fermi Redmine | Bug                   | New      | Normal   | Changing the order of shown columns in a custom issue query destroys the column selection          |                   | 04/04/2018 10:31 AM |
| 12953 | LArSoft       | Idea                  | Accepted | Normal   | Include paths in FHiCL include directives  |                   | 09/06/2016 11:19 AM |
| 12883 | SBND code     | Task                  | New      | Normal   | Modify the repository code to have SBND in lieu of LAr1ND  | Andrzej Szalc     | 11/01/2017 04:06 PM |
| 12882 | SBND code     | Task                  | Closed   | Normal   | Import lar1ndcode git repository into sbndcode   | Gianluca Petrillo | 06/23/2016 08:39 PM |
| 12881 | SBND code     | Task                  | Closed   | Normal   | Import lar1ndcode users in the new sbndcode subproject   | Gianluca Petrillo | 09/26/2016 02:27 PM |
| 12834 | art           | Bug                   | Closed   | Normal   | Placeholder %tc gives unexpected "not-a-date-time" string  | Kyle Knoepfel     | 06/07/2016 08:18 AM |
| 12828 | LAr1ND code   | Bug                   | Closed   | Normal   | Case conflicts in file names should be prevented   |                   | 11/09/2016 02:53 PM |
| 12827 | LAr1ND code   | Bug                   | Closed   | Normal   | Name case conflict in geometry directory   | Gianluca Petrillo | 07/06/2016 12:55 PM |
| 12826 | LAr1ND code   | Bug                   | Closed   | Normal   | UPS in /grid/fermiapp/products/lar1nd is old   |                   | 10/04/2016 11:10 AM |
| 12648 | art           | Bug                   | Closed   | Normal   | Segmentation fault reading run products  | Kyle Knoepfel     | 08/02/2016 12:39 PM |
| 12602 | LArSoft       | Feature               | Accepted | Low      | Add a compact representation for the plane ID, TPC ID and cryostat ID                              |                   | 11/16/2017 01:47 PM |
| 12577 | LArSoft       | Feature               | Closed   | Normal   | Make LArSeedService give more complete feedback when a configuration key is missing                | Gianluca Petrillo | 10/04/2016 03:17 PM |
| 12574 | fhicl-cpp     | Feature               | Rejected | Normal   | Have exceptions from get() report the full configuration key                                       |                   | 05/16/2016 03:18 PM |
| 12429 | LArSoft       | Feature               | Closed   | Normal   | Update LArSoft code to use LArSeedService service in larsim  | Gianluca Petrillo | 06/20/2016 11:35 AM |
| 12367 | LArSoft       | Necessary Maintenance | Closed   | Low      | Merge namespaces lar::utils and lar::util  | Gianluca Petrillo | 11/30/2016 12:03 PM |
| 12356 | fhicl-cpp     | Feature               | Closed   | Normal   | Allow fhicl::Table::print_allowed_configuration() to print to message facility streams             | Kyle Knoepfel     | 06/07/2016 08:18 AM |
| 12237 | LArSoft       | Task                  | Closed   | Normal   | Usability: add facilities for better/easier use of associations                                    | Saba Sehrish      | 01/17/2019 02:43 PM |
| 12067 | NuTools       | Bug                   | Closed   | Normal   | Add move operations to simbb::MCParticle   | Gianluca Petrillo | 04/27/2018 01:41 PM |
| 11998 | LArSoft       | Support               | Assigned | Low      | Provide a better way to simulate non-standard physics inside the nucleus                           | Robert Hatcher    | 10/27/2016 12:55 PM |

| #     | Project       | Tracker               | Status   | Priority | Subject   | Assignee          | Updated             |
|-------|---------------|-----------------------|----------|----------|---|-------------------|---------------------|
| 11944 | art           | Feature               | Closed   | Normal   | Have MemoryTracker report VmHWM   | Kyle Knoepfel     | 06/07/2016 08:19 AM |
| 11872 | LArSoft       | Task                  | Accepted | Normal   | Establish a standard way to represent particle identification results                                 |                   | 11/16/2017 01:49 PM |
| 11871 | LArSoft       | Necessary Maintenance | Accepted | Normal   | Decay products in pandora do not start from the same vertex, while Projection Matching Algorithm's do |                   | 02/21/2017 01:56 PM |
| 11870 | LArSoft       | Feature               | Assigned | Normal   | Have a uniform way to identify decay/stopping position of a track                                     | Tracy Usher       | 05/09/2018 11:07 AM |
| 11869 | LArSoft       | Task                  | Closed   | Normal   | Usability: Add examples of service to larexamples   | Gianluca Petrillo | 10/03/2016 10:15 AM |
| 11659 | LArSoft       | Bug                   | Closed   | Low      | Investigate the failure in support of pandora visualization within LArSoft                            | Gianluca Petrillo | 06/17/2016 04:04 PM |
| 11627 | LArSoft       | Necessary Maintenance | Closed   | Normal   | Document better how to define a PFPparticle without a daughter  | Gianluca Petrillo | 10/03/2016 10:15 AM |
| 11468 | LArSoft       | Necessary Maintenance | Closed   | Normal   | Clean larsim/Simulation/SimPhotons.h from DUNE code   | Jason Stock       | 03/07/2017 12:31 PM |
| 11323 | LArSoft       | Feature               | Closed   | Normal   | Port ShowerReco3D code from LArLite into LArSoft  | Corey Adams       | 11/29/2016 02:49 PM |
| 11257 | LArSoft       | Support               | Assigned | Normal   | recob::PCAxis uses nested vector to represent 3x3 matrix  | Tracy Usher       | 11/06/2017 01:41 PM |
| 11157 | artExtensions | Feature               | Rejected | Normal   | Ensure that SeedService reacts correctly in contexts where no module is active                        | Gianluca Petrillo | 04/26/2016 04:21 PM |
| 11102 | art           | Feature               | Closed   | Normal   | Bump fhicl-cpp for art 1.17.x series  | Kyle Knoepfel     | 12/23/2015 09:01 AM |
| 11066 | LArSoft       | Feature               | Accepted | Low      | Load geometry from ROOT file instead of GDML file   |                   | 11/16/2017 03:36 PM |
| 10844 | uBooNE code   | Bug                   | Rejected | Normal   | Inconsistent dependencies in uboonecode   |                   | 11/06/2015 01:16 PM |
| 10741 | LArSoft       | Bug                   | Closed   | Normal   | Move or remove sim::DUNE10ktPhotons class from larsim   |                   | 10/17/2016 09:29 AM |
| 10725 | LArSoft       | Support               | Rejected | Normal   | Investigate merging DBSCAN algorithms   | Gianluca Petrillo | 04/11/2016 09:26 AM |
| 10663 | LArSoft       | Bug                   | Closed   | Normal   | Event dumper does not show the product class column any more  | Gianluca Petrillo | 09/29/2016 10:55 AM |
| 10659 | NuTools       | Bug                   | Closed   | Low      | Issues reading data products with instance names in the event display                                 |                   | 01/08/2020 01:05 PM |
| 10529 | LArSoft       | Feature               | Rejected | Low      | Explore the use of FHiCL configuration validation in LArSeedService                                   | Gianluca Petrillo | 11/30/2016 12:01 PM |
| 10528 | LArSoft       | Necessary Maintenance | Closed   | Low      | Add the full path into SeedService library name   | Gianluca Petrillo | 10/03/2016 10:15 AM |
| 10494 | LArSoft       | Support               | Closed   | Normal   | Update LArSoft analysis example to use FHiCL validation and documentation                             | Gianluca Petrillo | 10/03/2016 10:15 AM |
| 10486 | LArSoft       | Bug                   | Closed   | Normal   | LArSoft event display does not show waveform for DUNE35t  | Gianluca Petrillo | 10/13/2015 10:48 AM |
| 10381 | LArSoft       | Bug                   | Closed   | Normal   | Event display uses IChannelStatusService in a non-interoperable way                                   |                   | 10/11/2016 09:17 AM |
| 10366 | LArSoft       | Support               | Closed   | Normal   | Move ChannelStatus service interface into a non-DB place and namespace                                | Gianluca Petrillo | 06/12/2017 01:17 PM |
| 10194 | LArSoft       | Bug                   | Closed   | Normal   | Crash when running MicroBooNE Geant4 simulation   | Gianluca Petrillo | 10/13/2015 10:47 AM |
| 10141 | uBooNE code   | Bug                   | Closed   | Normal   | uboonedaq_datatypes dependency of uboonecode is not optional any more                                 |                   | 08/23/2016 01:06 PM |
| 9818  | LArSoft       | Milestone             | Closed   | Low      | Add knowledge of TPC topology in GeometryCore   | Erica Snider      | 02/07/2019 02:39 PM |
| 9800  | LArSoft       | Support               | Closed   | Low      | Make prodsingle.fcl use SeedService   | Gianluca Petrillo | 08/13/2015 02:10 PM |

| #    | Project                    | Tracker | Status   | Priority  | Subject  | Assignee           | Updated             |
|------|----------------------------|---------|----------|-----------|--|--------------------|---------------------|
| 9791 | LArSoft                    | Bug     | Closed   | Low       | Deprecated definition of template specializations in classes.h files                     | Gianluca Petrillo  | 10/03/2016 10:15 AM |
| 9754 | LArSoft                    | Bug     | Closed   | Low       | Outdated "*.sample" files in LArSoft   | Lynn Garren        | 08/18/2015 11:12 AM |
| 9705 | LArSoft                    | Bug     | Closed   | Normal    | Temporary workaround on optical detector code in larana should be removed for a real fix | Taritree Wongjirad | 09/08/2016 01:45 PM |
| 9264 | LArSoft                    | Feature | Closed   | Normal    | Support reconstruction of objects from channel/time space                                | Gianluca Petrillo  | 11/02/2016 02:22 PM |
| 9254 | LArSoft                    | Feature | Closed   | Low       | Update Doxygen version to support markdown   | Lynn Garren        | 04/12/2016 04:04 PM |
| 9195 | cetbuildtools              | Feature | Closed   | Low       | Have buildtool detect which "generator" to use   | Lynn Garren        | 07/02/2015 02:20 PM |
| 8954 | LArSoft                    | Idea    | Closed   | Low       | New geometry features  | Gianluca Petrillo  | 10/11/2017 02:53 PM |
| 8894 | mrb                        | Bug     | Assigned | Normal    | Test environment setup incomplete if fclDir not in product_deps                          | Lynn Garren        | 06/01/2015 11:51 AM |
| 8529 | fhicl-cpp                  | Feature | Closed   | Normal    | Cross-platform end-of-line format  | Kyle Knoepfel      | 07/01/2015 06:24 PM |
| 8132 | LArSoft                    | Feature | Closed   | Low       | Investigate the new SimpleMemoryCheck replacements                                       | Gianluca Petrillo  | 10/03/2016 10:15 AM |
| 8131 | LArSoft                    | Feature | Closed   | Low       | Investigate the new Timing replacements  | Gianluca Petrillo  | 10/03/2016 10:15 AM |
| 8104 | LArSoft                    | Support | Closed   | Low       | Fix the services.user directive in art FHiCL configuration files                         | Gianluca Petrillo  | 10/03/2016 10:15 AM |
| 8103 | LArSoft                    | Support | Closed   | Low       | Update to art 1.13.01: update deprecated features  | Gianluca Petrillo  | 11/30/2016 12:03 PM |
| 8018 | art                        | Feature | Closed   | Normal    | Mark a data product to be dropped  | Kyle Knoepfel      | 01/24/2018 07:45 AM |
| 8009 | LAr-Continuous-Integration | Feature | Closed   | Normal    | Add an option to test_runner to list the available tests                                 | Marc Mengel        | 08/19/2015 05:07 PM |
| 7911 | NuSoft/NuTools             | Feature | New      | Normal    | Open access to GENIE random engine   |                    | 02/20/2015 03:01 PM |
| 7564 | cetbuildtools              | Bug     | Closed   | Low       | prints need protection from qualifiers starting with "-"                                 |                    | 03/28/2016 01:45 PM |
| 7548 | art                        | Bug     | Closed   | Low       | art::ProductID::productIndex() returns a ProcessIndex instead of a ProductIndex          | Christopher Green  | 02/16/2015 10:44 AM |
| 7532 | LArSoft                    | Feature | Closed   | Normal    | Make dump_wires.fcl independent of geometry  | Gianluca Petrillo  | 03/03/2015 10:22 AM |
| 7531 | LArSoft                    | Bug     | Closed   | Normal    | Add a "standard" geometry to LArSoft, and remove references to other geometries          | Gianluca Petrillo  | 03/03/2015 10:22 AM |
| 7465 | LArSoft                    | Bug     | Closed   | Low       | LArSoft uses deprecated processes in Geant 4   | Lynn Garren        | 04/12/2016 04:07 PM |
| 7338 | LArSoft                    | Bug     | Closed   | Normal    | Old geometry configuration files for LBNE and MicroBooNE should be removed from larcore  | Gianluca Petrillo  | 02/17/2015 10:58 AM |
| 7183 | LArSoft                    | Bug     | Closed   | Low       | CosmicTracker not thread-safe  |                    | 09/06/2016 10:08 AM |
| 7076 | LArSoft                    | Bug     | Closed   | Immediate | LArSoft v03_00_00 unable to read recob::Wire from MicroBooNE MCC 5 files                 | Lynn Garren        | 11/25/2014 10:16 AM |
| 7060 | LArSoft                    | Bug     | Closed   | Normal    | FindManyP() usage in CosmicTracker module  | Gianluca Petrillo  | 11/14/2014 10:23 AM |
| 7059 | LArSoft                    | Bug     | Closed   | Normal    | FindManyP() usage in ClusterPCA module   | Gianluca Petrillo  | 11/14/2014 10:23 AM |
| 7058 | LArSoft                    | Bug     | Closed   | Normal    | FindManyP() usage in LineMerger module   | Gianluca Petrillo  | 11/14/2014 10:24 AM |
| 7057 | LArSoft                    | Bug     | Closed   | Normal    | FindManyP() usage in TrackStitcher module  | Eric Church        | 01/13/2015 10:26 AM |
| 7055 | LArSoft                    | Bug     | Closed   | Normal    | FindManyP() usage in PrimaryVertexFinder module  | Jonathan Asaadi    | 03/03/2015 10:33 AM |
| 7054 | LArSoft                    | Bug     | Rejected | Normal    | FindManyP() usage in ShowerAngleCluster module   | Kazuhiro Terao     | 11/14/2014 04:10 PM |

| #    | Project         | Tracker | Status   | Priority | Subject  | Assignee          | Updated             |
|------|-----------------|---------|----------|----------|--|-------------------|---------------------|
| 7053 | LArSoft         | Bug     | Rejected | Normal   | FindManyP() usage in EventDisplay library  | Brian Rebel       | 09/23/2014 10:00 AM |
| 7052 | LArSoft         | Bug     | Closed   | Normal   | FindManyP() usage in AggregateVertex, VertexCheater, TrackCheater and EventMaker modules | Brian Rebel       | 01/13/2015 10:27 AM |
| 7051 | LArSoft         | Bug     | Closed   | Normal   | FindManyP() usage in Calorimetry module  | Wesley Ketchum    | 08/30/2016 02:50 PM |
| 7050 | LArSoft         | Bug     | Closed   | Normal   | FindManyP() usage in Track3DKalmanSPS, Track3Dreco and TrackAna modules                  | Eric Church       | 01/13/2015 10:25 AM |
| 7049 | LArSoft         | Bug     | Closed   | Normal   | FindManyP() usage in ShowerCheater, ShowerFinder and ShowerReco modules                  | Gianluca Petrillo | 03/03/2015 10:22 AM |
| 7048 | LArSoft         | Bug     | Closed   | Normal   | FindManyP() usage in DataScanner module  | Kazuhiro Terao    | 09/15/2015 10:28 AM |
| 6829 | LArSoft         | Idea    | Rejected | Low      | Implement a art log parser   | Gianluca Petrillo | 03/09/2016 10:25 AM |
| 6666 | LArSoft         | Feature | Closed   | Low      | Make BackTracker lazy  | Gianluca Petrillo | 10/03/2016 10:15 AM |
| 6646 | mrb             | Bug     | Closed   | Normal   | mrb can't find .upsfiles in LBNE products repository                                     | Lynn Garren       | 07/28/2014 11:59 AM |
| 6642 | LArSoft         | Bug     | Closed   | Normal   | Memory leaks in FLAME algorithm  | Gianluca Petrillo | 08/26/2014 10:23 AM |
| 6630 | cetbuildtools   | Bug     | Closed   | Normal   | cet_test does not set BOOST_TEST_MAIN definition   | Christopher Green | 02/16/2015 10:32 AM |
| 6432 | LArSoft         | Support | Closed   | High     | Merging TimeService into the develop branch  | Gianluca Petrillo | 08/12/2014 11:23 AM |
| 6423 | Fermi Redmine   | Bug     | New      | Normal   | Too large e-mail from GIT  |                   | 06/09/2014 11:17 AM |
| 6402 | art             | Feature | Closed   | Normal   | Add verbosity on fast cloning status in RootOutput module                                | Christopher Green | 02/16/2015 10:32 AM |
| 6401 | LArSoft         | Support | Closed   | Normal   | Review the data product classes structure  | Gianluca Petrillo | 09/08/2016 11:50 AM |
| 6394 | LArSoft         | Bug     | Closed   | Normal   | Verify that association query objects are created outside tight loops                    | Gianluca Petrillo | 08/30/2016 02:50 PM |
| 6390 | mrb             | Bug     | Closed   | Low      | New mrb functions are not exported from the environment to the scripts [bash]            | Lynn Garren       | 01/04/2016 04:14 PM |
| 6344 | art             | Bug     | Closed   | Normal   | Filter out output of some art services   |                   | 02/16/2015 10:32 AM |
| 6287 | art             | Bug     | Closed   | Normal   | Debugging problems with gdb from gcc v4_8_2  | Christopher Green | 09/03/2014 09:26 AM |
| 6081 | LArSoft         | Bug     | Closed   | Normal   | Warnings on v1_01_00 cmake phase   | Lynn Garren       | 07/01/2014 11:53 AM |
| 5966 | messagefacility | Feature | Closed   | Normal   | Add a move constructor to the loggers  | Kyle Knoepfel     | 02/16/2015 10:32 AM |
| 5831 | art             | Bug     | Closed   | Normal   | SimpleMemoryCheck affected by overflow errors  | Kyle Knoepfel     | 02/16/2015 10:32 AM |
| 5789 | mrb             | Bug     | Closed   | Normal   | @mrb setEnv@ does not set up libraries correctly (@larsoft@ @v1_00_06@)                  | Lynn Garren       | 06/02/2014 04:08 PM |
| 5746 | cet-is          | Feature | Closed   | Normal   | Adding gperftools to (LArSoft) UPS   |                   | 01/02/2018 12:42 PM |
| 5745 | cet-is          | Support | Closed   | Normal   | Adding the latest valgrind (3.9.0) to (LArSoft) UPS                                      |                   | 05/02/2016 11:50 AM |
| 5737 | LArSoft         | Bug     | Closed   | Normal   | Random number generators   | Gianluca Petrillo | 10/03/2016 10:15 AM |
| 5665 | art             | Feature | Closed   | Normal   | SimpleMemoryCheck peak memory from the O.S.  | Kyle Knoepfel     | 02/16/2015 10:32 AM |
| 5664 | art             | Bug     | Closed   | Low      | The summary of @SimpleMemoryCheck@ looks garbaged if there are few items                 | Kyle Knoepfel     | 02/16/2015 10:32 AM |
| 5596 | LArSoft         | Bug     | Closed   | Normal   | Outdated bugfix for Geant4 4.9.4 (patch 2)   | William Seligman  | 07/15/2014 10:28 AM |

| #    | Project | Tracker | Status | Priority | Subject   | Assignee          | Updated             |
|------|---------|---------|--------|----------|---|-------------------|---------------------|
| 5589 | LArSoft | Bug     | Closed | Normal   | Log of debugging messages is enabled in non-debugging builds          | Gianluca Petrillo | 04/29/2014 11:23 AM |
| 5402 | mrb     | Bug     | Closed | Normal   | Misleading message by gitCheckout                                     | Lynn Garren       | 03/03/2014 11:44 AM |
| 5215 | mrb     | Bug     | Closed | Normal   | gitCheckout uses SSH even when SSH does not work (in particular ways) | Lynn Garren       | 03/03/2014 11:44 AM |
| 5211 | fast    | Bug     | New    | Low      | Example 3 fails to compile (getpid undefined)                         |                   | 01/16/2014 12:32 PM |