

## LArSoft - List by Status

#	Tracker	Status	Priority	Subject	Assignee	Updated
<b>New (14)</b>						
23820	Bug	New	Normal	WireCell::Waveform::percentile throws an exception when only a subset of ProtoDUNE-SP channels report data		01/02/2020 10:31 AM
22763	Bug	New	Normal	NTupleInterface ignores fGPhaseSpace member of simb::GTruth		06/19/2019 10:17 AM
22505	Support	New	Normal	Uboonocode v08_00_00_13a		05/02/2019 03:57 PM
22232	Support	New	Normal	Uboonocode v08_00_00_11		03/27/2019 04:48 PM
18998	Necessary Maintenance	New	Normal	Verify the aggregation criteria for data product MuCS::MuCSDTOffset		02/14/2018 06:28 PM
15851	Bug	New	Normal	Test PropTest uses non-reproducible random stream		03/13/2017 03:08 PM
15670	Bug	New	Normal	SimWireMicroBooNE results are not reproducible		02/24/2017 05:33 PM
15127	Bug	New	Normal	SpaceChargeService service is configured with the wrong name		01/12/2017 06:28 PM
14634	Bug	New	Normal	UBOpReadoutMap bugs		11/23/2016 11:38 AM
14177	Bug	New	Normal	RootOutput and fileProperties		10/18/2016 10:54 AM
13442	Necessary Maintenance	New	Normal	Outdated specification for data product dictionary		08/04/2016 02:49 PM
8925	Feature	New	Normal	Experiment-independent channel filter in geometry service		05/27/2015 09:57 AM
8923	Feature	New	Normal	Experiment-independent access to database calibration information in LArProperties		05/26/2015 08:54 AM
8921	Feature	New	Normal	Add standard fcl configurations and mc samples with space charge simulation.		05/26/2015 08:51 AM
<b>Assigned (86)</b>						
25587	Bug	Assigned	Normal	Can't generate events with no neutrino interactions with GENIEGen	Robert Hatcher	03/08/2021 10:26 AM
25571	Support	Assigned	Normal	need new version of Nvidia Triton (formerly TensorRT) client in ups/products to support Tensorflow 2.3.1	Lynn Garren	03/08/2021 10:30 AM
25525	Bug	Assigned	Normal	Adding offset in MergeSimSources breaks symmetry assumed by truth matching	Gianluca Petrillo	03/01/2021 10:31 AM
25512	Support	Assigned	Normal	Memory footprint increase in ProtoDUNE reconstruction job since v09_16_00	Kyle Knoepfel	02/19/2021 04:41 PM
25273	Feature	Assigned	Normal	Changes to nusimdata -- saving Transportation steps	Lynn Garren	12/10/2020 05:27 PM
25218	Support	Assigned	High	restructure larrecodnn	Michael Wang	12/14/2020 10:28 AM
25149	Bug	Assigned	Low	Implicit conversion loses integer precision in lardataalg/DetectorInfo/DetectorClocksData.h	Iker de Icaza Astiz	11/10/2020 07:49 AM
25002	Support	Assigned	Normal	Calorimetry module replacement	Gray Putnam	09/22/2020 03:23 PM
24887	Bug	Assigned	Normal	It is possible to specify inconsistent GDMLs with the new LArG4	Hans-Joachim Wenzel	09/28/2020 10:34 AM
24557	Bug	Assigned	Normal	MEC dial in GENIE reweight	Steven Gardiner	06/26/2020 11:44 AM
24477	Support	Assigned	Normal	MRB does not initialise GitFlow	Erica Snider	06/01/2020 10:30 AM

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24207	Necessary Maintenance	Assigned	Normal	Outdated Wiki Instructions for creating indirection layer	Kyle Knoepfel	04/20/2020 10:22 AM
24185	Support	Assigned	Normal	Unusually long run time for first lar command compared with subsequent commands.	Patrick Gartung	03/16/2020 12:59 PM
24133	Bug	Assigned	High	trtis_clients and tensorflow interfaces need to be separated	Michael Wang	03/09/2020 10:31 AM
24099	Necessary Maintenance	Assigned	Normal	Update wiki page for new directory structure	Katherine Lato	01/28/2021 11:12 AM
23200	Feature	Assigned	Normal	Make IsRealData consistent across backtracking modules.	Jason Stock	09/04/2019 11:17 AM
23188	Necessary Maintenance	Assigned	Normal	Upgrade PMAlg algorithms for thread safety	Kyle Knoepfel	08/29/2019 08:10 AM
22324	Support	Assigned	Normal	LArPandora - ProtoDUNEBeamEvent	Steven Green	05/20/2019 10:45 AM
21789	Support	Assigned	Normal	larsim/EventGenerator/GENIE/GENIEGen_module.cc wastes a lot of CPU time	Robert Hatcher	02/04/2019 02:30 PM
21002	Bug	Assigned	High	PhotonBackTracker OpFlash Matching Prep is broken	Jason Stock	03/13/2019 06:26 PM
20467	Support	Assigned	Normal	Update nuwro version	Erica Snider	07/30/2018 10:40 AM
20370	Necessary Maintenance	Assigned	Normal	Put code LArSoft repositories under Apache V2 license	Lynn Garren	07/23/2018 10:30 AM
20242	Support	Assigned	Normal	Update list of external packages used in LArSoft	Erica Snider	02/04/2019 11:01 AM
20241	Support	Assigned	High	Make Qt and PyQt 4/5 official ups products	Erica Snider	07/03/2018 04:42 PM
20065	Bug	Assigned	Normal	Documentation of momentum calculator not accessible	Tingjun Yang	06/04/2018 11:07 AM
19848	Feature	Assigned	Low	Overload BackTracker HitToTrackIds to accept an art::Ptr.	Jason Stock	05/07/2018 10:20 AM
19539	Necessary Maintenance	Assigned	Normal	Restore tensorflow-dependent code disabled for support to Clang	Christoph Alt	04/20/2018 06:56 AM
19412	Bug	Assigned	Normal	EMShowerAlg requires Backtracker service for no reason	Michael Wallbank	03/19/2018 10:57 AM
19328	Milestone	Assigned	Normal	Pixel-detectors within LArSoft.	Erica Snider	03/08/2018 10:42 AM
19314	Feature	Assigned	Normal	SingleGen: handle negative momentum values	Thomas Brooks	03/22/2018 01:07 PM
19288	Feature	Assigned	Normal	Re-architecture of art services in LArSoft to ensure thread safety	Michael Wang	10/17/2019 03:00 PM
19286	Feature	Assigned	Normal	Selective loading of detector data	Erica Snider	03/06/2018 12:04 PM
18972	Bug	Assigned	Normal	Track length based only on ValidPoints (i.e. !NoPoint flag), ignores flags ExcludedByFit and RejectedByFit	Giuseppe Cerati	05/02/2018 01:53 PM
18826	Bug	Assigned	Normal	detinfo::DetectorClocksStandard::ExternalClock() clock not initialized	Kazuhiro Terao	02/05/2018 10:37 AM
18797	Support	Assigned	Normal	Redesign of the timing associated to the trigger	Kyle Knoepfel	05/02/2018 12:38 PM
18724	Feature	Assigned	Normal	Have raw::RawDigit report their time reference frame	Saba Sehrish	04/10/2018 10:48 AM
18708	Feature	Assigned	Low	reconsider the doxygen build	Lynn Garren	01/22/2018 10:42 AM
18697	Support	Assigned	Normal	python tools	Lynn Garren	01/08/2018 11:11 AM
18583	Bug	Assigned	Normal	Inconsistent documentation of geo::GeometryCore::NearestWireID() and geo::GeometryCore::NearestChannel()	Saba Sehrish	09/19/2019 03:09 PM

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18329	Bug	Assigned	Normal	Potential Lack of Simulation of Recoil Nuclei in LArSoft	Robert Hatcher	06/19/2018 01:43 PM
18003	Bug	Assigned	Normal	lariov::SIOVChannelStatusProvider depends on art	Brandon Eberly	06/25/2018 10:47 AM
17960	Bug	Assigned	Normal	problem with the debug build of larreco on SLF6	Lynn Garren	11/07/2017 01:46 PM
17950	Task	Assigned	Normal	Preliminary vectorization tests and evaluation	Guilherme Lima	10/18/2017 11:42 AM
17948	Task	Assigned	Normal	Investigate potential areas where vectorization may be applied in LArSoft code	Guilherme Lima	10/18/2017 11:15 AM
17947	Task	Assigned	Normal	Profiling LArSoft	Guilherme Lima	03/08/2018 11:29 AM
17946	Task	Assigned	Normal	setting up and running LArSoft on laptop (or elsewhere)	Guilherme Lima	03/08/2018 11:37 AM
17929	Bug	Assigned	Normal	Segmentation fault when MergeWithinTPC "on"	Tracy Usher	05/09/2018 11:15 AM
17920	Milestone	Assigned	Normal	Vectorization of LArSoft Code	Guilherme Lima	04/25/2018 02:26 PM
17843	Bug	Assigned	Normal	Fix event display so that hits associated to invalid trajectory points are not connected to the track line	Giuseppe Cerati	10/16/2017 10:31 AM
17794	Support	Assigned	Normal	Make Doxygen show full paths for header #include directives	Lynn Garren	10/02/2017 10:42 AM
17715	Support	Assigned	Normal	Large memory usage in SpacePointSolver for MicroBooNE	Christopher Backhouse	09/18/2017 10:27 AM
17429	Task	Assigned	Normal	Design and implement global wire coordinate feature.	Michael Wallbank	08/10/2017 11:20 AM
17426	Support	Assigned	Normal	environment variable to ctskelgen	Erica Snider	08/10/2017 10:50 AM
17307	Idea	Assigned	Normal	create a gallery example	Saba Sehrish	10/16/2017 04:42 PM
17306	Idea	Assigned	Normal	create an art example	Saba Sehrish	10/12/2017 02:45 PM
17279	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
17097	Bug	Assigned	Normal	Floating point divide by zero in EMShowerAlg.cxx	Michael Wallbank	07/11/2017 08:25 AM
17095	Bug	Assigned	Normal	Floating point divide by zero in ClusterParamsAlg::RefineDirection	Andrzej Szelc	07/10/2017 10:36 AM
17047	Necessary Maintenance	Assigned	Normal	Floating Point Exceptions	Lynn Garren	07/10/2017 10:43 AM
16438	Task	Assigned	Normal	Update PMA to support any drift direction and any set of view types	Christoph Alt	05/08/2018 09:47 AM
16389	Bug	Assigned	Normal	Backtracker fails on corsika in-time MC	Wesley Ketchum	10/17/2017 05:03 PM
15746	Feature	Assigned	Low	Provide module-independent ionization transportation function	William Seligman	11/16/2017 10:54 AM
15733	Necessary Maintenance	Assigned	Normal	Add geometry tests in the integration test	Wesley Ketchum	03/06/2017 10:30 AM
15730	Task	Assigned	Normal	Verify that the wire and optical calibration module supports arbitrary drift direction.	Christoph Alt	05/08/2018 09:47 AM
15729	Task	Assigned	Normal	Update the reconstruction algorithms to support arbitrary drift direction	Christoph Alt	10/11/2018 11:55 AM
15728	Task	Assigned	Normal	Update event display to support arbitrary drift direction	Christoph Alt	05/08/2018 09:46 AM
15453	Necessary Maintenance	Assigned	Normal	Remove legacy data members from recob::Track	Giuseppe Cerati	02/06/2017 10:29 AM
15313	Milestone	Assigned	Normal	Migrating LArSoft to SPACK build system	Lynn Garren	03/08/2018 11:32 AM
14964	Bug	Assigned	Normal	OpFlashAlg incompatible with multi-TPC detectors	Wesley Ketchum	10/18/2017 09:02 AM

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14363	Milestone	Assigned	Normal	Support detectors with drift direction different than x axis	Christoph Alt	10/11/2018 11:55 AM
14182	Bug	Assigned	Normal	Memory errors and leaks	Tracy Usher	10/19/2016 09:41 AM
13468	Necessary Maintenance	Assigned	Normal	larpandora repository - history includes large files from before larpandora project began	Lynn Garren	09/07/2016 10:50 AM
13063	Bug	Assigned	Normal	Memory errors and leaks	Kazuhiro Terao	10/19/2016 11:37 AM
12998	Support	Assigned	Normal	Talk to Pandora about exporting their Pandora monitoring concept into LArSoft	Erica Snider	07/25/2016 10:40 AM
12792	Feature	Assigned	Low	FLUKA interface with LArSoft	Thomas Junk	04/27/2017 01:42 PM
12506	Necessary Maintenance	Assigned	Low	Remove unused code for optical and shower from Ben Jones.	Erica Snider	07/25/2016 10:40 AM
11998	Support	Assigned	Low	Provide a better way to simulate non-standard physics inside the nucleus	Robert Hatcher	10/27/2016 12:55 PM
11870	Feature	Assigned	Normal	Have a uniform way to identify decay/stopping position of a track	Tracy Usher	05/09/2018 11:07 AM
11705	Bug	Assigned	Normal	memory access error in larana/CosmicRemoval/BeamFlashTrackMatchTaggerAlg.cxx	Wesley Ketchum	10/20/2016 09:07 AM
11639	Bug	Assigned	Normal	AlgoThreshold_test needs to be fixed	Wesley Ketchum	02/04/2016 08:37 PM
11631	Bug	Assigned	Normal	raw.cxx Uncompress gives wrong results for ZeroSuppression and Huffman together	Jonathan Insler	07/25/2016 10:40 AM
11522	Feature	Assigned	Normal	'Global wire' coordinate within LArSoft geometry	Michael Wallbank	08/10/2017 11:21 AM
11257	Support	Assigned	Normal	recob::PCAxis uses nested vector to represent 3x3 matrix	Tracy Usher	11/06/2017 01:41 PM
10991	Support	Assigned	Normal	Lack of activating the Geant4 visualization in LArSoft	Erica Snider	08/10/2017 10:26 AM
10088	Feature	Assigned	Normal	Introducing IDs for photon detector geometry	Gleb Sinev	09/08/2016 01:39 PM
8922	Feature	Assigned	High	Experiment-independent access to pedestals in larsoft event display.	Tracy Usher	06/02/2015 05:19 PM

### Resolved (30)

24226	Support	Resolved	High	Reproducible events in the refactored LARG4	Kyle Knoepfel	04/10/2020 08:42 AM
23196	Support	Resolved	Normal	Make GausHitFinder's dependence on RawDigit optional	Tracy Usher	11/06/2019 03:06 PM
22466	Feature	Resolved	Normal	Provide a LArSoft geometry example working with the new larg4	Hans-Joachim Wenzel	11/13/2020 02:44 PM
21568	Support	Resolved	Normal	Update LArSoft infrastructure for GENIE v3.0.2	Steven Gardiner	01/10/2019 12:00 PM
21394	Bug	Resolved	Normal	Bug in Fiducial Volume Definition in Larsim	Gray Putnam	12/10/2018 10:53 AM
21335	Task	Resolved	Normal	Finish documentation for LARG4 Restructure	Hans-Joachim Wenzel	11/27/2018 03:17 PM
20685	Bug	Resolved	Normal	Bug in ISCalcSeparate::EFieldAtStep	Wesley Ketchum	08/28/2018 11:31 AM
20410	Support	Resolved	Normal	building larsoft with e17		07/26/2018 01:12 PM
19498	Support	Resolved	Normal	building larwirecell with c2	Brett Viren	03/26/2018 04:56 PM
19216	Bug	Resolved	Urgent	larsoft-v06_70_00 unable to run larsoft event display		04/16/2018 11:12 AM
19067	Bug	Resolved	Normal	Trajcluster segfault	Bruce Baller	02/21/2018 10:36 AM
18868	Bug	Resolved	Normal	new warning from gcc 6.4.0 in larreco TrackFinder		02/01/2018 02:53 PM
17897	Bug	Resolved	Normal	MARLEYHelper fails to load ROOT-based neutrino spectra	Steven Gardiner	10/12/2017 06:33 PM

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17360	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
17231	Bug	Resolved	Normal	Hits data product size change in continuous integration testing	Brandon Eberly	08/01/2017 03:42 PM
17068	Bug	Resolved	Normal	Floating point divide by zero in TrajClusterAlg::UpdateTraj	Bruce Baller	07/12/2018 11:06 AM
17048	Bug	Resolved	Normal	floating point divide by zero in tca:MCSMom	Bruce Baller	07/12/2018 11:07 AM
16936	Bug	Resolved	Normal	Zero length steps during LArG4	Hans-Joachim Wenzel	11/15/2018 03:17 PM
16812	Necessary Maintenance	Resolved	Normal	Remove DUNE-specific code from GeometryGeo	Saba Sehrish	03/11/2019 10:23 AM
16778	Bug	Resolved	Normal	Memory deallocation error running MicroBooNE reconstruction	Tracy Usher	06/09/2017 04:00 PM
16639	Bug	Resolved	Normal	ArgoNeuT uses the existing lifetime and temperature if query of database fails	Tingjun Yang	05/23/2017 07:49 PM
16627	Bug	Resolved	Normal	Cannot run g4 in argoneut simulation	Tingjun Yang	05/23/2017 03:23 PM
16502	Bug	Resolved	Normal	problems using feature/dgg_lightprop	Diego Gamez	05/15/2017 04:29 PM
14847	Bug	Resolved	High	MARLEYGen module fails to use loaded nuclear structure data when simulating de-excitations	Steven Gardiner	12/17/2016 04:41 PM
14843	Bug	Resolved	Normal	LArG4 MCParticle hierarchy information	John Marshall	12/15/2016 08:54 PM
14454	Milestone	Resolved	Normal	Refactoring LArG4	Hans-Joachim Wenzel	11/28/2018 02:15 PM
14348	Bug	Resolved	High	Conflict between DUNE and MicroBooNE code	Matthew Thiesse	11/07/2016 10:28 AM
13718	Bug	Resolved	Normal	MCRecoPart uses non-portable coordinate system	Saba Sehrish	03/11/2019 11:03 AM
11978	Necessary Maintenance	Resolved	Low	TPC Active Volume	Tyler Alion	08/10/2017 12:14 PM
11628	Bug	Resolved	Normal	Pedestal passed by mutable reference in raw.cxx	Jonathan Insler	02/08/2016 10:24 AM

### Feedback (15)

25606	Support	Feedback	Normal	Libtorch v1.6.0 high memory usage		03/23/2021 06:52 AM
24706	Bug	Feedback	Low	Opposite channel numbering sorting for OpDets		08/03/2020 11:32 PM
24611	Support	Feedback	High	simultaneous use of auxdetgeometry service with geometry service		03/22/2021 10:28 AM
24563	Support	Feedback	Normal	Reintroduce FinalStateSelectFilter to LArEvt		07/06/2020 10:21 AM
24069	Necessary Maintenance	Feedback	Normal	Non-standard SpaceCharge interface		03/02/2020 10:29 AM
22523	Necessary Maintenance	Feedback	Normal	Remove deprecated getLf() members from data proxy interface		05/13/2019 04:21 PM
22452	Idea	Feedback	Normal	Tons of messages for background simulations.		05/13/2019 11:37 AM
22431	Bug	Feedback	Normal	Inconsistent location of wire plane reported by TPCGeo	Gianluca Petrillo	05/14/2019 09:09 AM
21303	Bug	Feedback	Normal	GenieGen module requires a cryostat in the geometry		12/03/2018 10:59 AM
19884	Necessary Maintenance	Feedback	Low	Create internal implimentation of ParticleList using art::Ptr instead of sim::MCParticle*		05/07/2018 10:27 AM
19844	Bug	Feedback	Normal	sam_web_client, python, SLF7, and larsoft setup		07/20/2018 12:06 PM

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19343	Bug	Feedback	Normal	Hit finding at the edge of a waveform gives inconsistent results	Andrzej Szec	05/30/2018 12:04 PM
18478	Necessary Maintenance	Feedback	Normal	Names associated to pdg codes in Style.cxx (in lareventdisplay) are out of date?	Tracy Usher	01/10/2018 12:56 PM
18477	Bug	Feedback	Normal	fhicl options mismatch in lareventdisplay	Tracy Usher	01/11/2018 09:40 AM
17427	Task	Feedback	Normal	Add geometry infrastructure for support of global wire coordinates	Tingjun Yang	08/03/2018 10:02 AM
<b>Accepted (25)</b>						
25501	Support	Accepted	Normal	Request to provide LArSoft builds for ubuntu LTS 20		02/22/2021 10:45 AM
25323	Support	Accepted	Normal	Update to gallery v1_15		12/21/2020 10:21 AM
24601	Necessary Maintenance	Accepted	Normal	Scintillation visibility by semi-analytic parametrization not supported for multi-cryostat detectors		07/27/2020 10:27 AM
23401	Bug	Accepted	Normal	TStreamer Error While converting old data product to new		10/14/2019 01:15 PM
22029	Milestone	Accepted	Normal	Data overlay infrastructure for LArSoft	Erica Snider	03/01/2019 02:59 PM
19494	Necessary Maintenance	Accepted	Normal	Restore fuzzyCluster to a reasonable memory usage		04/02/2018 10:19 AM
19476	Necessary Maintenance	Accepted	Normal	Workaround for GenVector classes not being constexpr		03/26/2018 10:36 AM
19474	Necessary Maintenance	Accepted	Normal	Workaround for Clang bug on array initialisation		03/26/2018 10:35 AM
19419	Feature	Accepted	Normal	Move initialisation of CorsikaGen from constructor to beginJob()		03/19/2018 10:51 AM
19138	Necessary Maintenance	Accepted	Normal	Update wiki pages to reflect the new repository structure		03/12/2018 10:34 AM
18980	Feature	Accepted	Normal	Failure of FindManyInChainP when the associated products haven't been read yet		04/16/2018 11:23 AM
18723	Bug	Accepted	Normal	Inconsistent information in GENIE MCTruth record	Robert Hatcher	01/31/2018 12:47 PM
18393	Feature	Accepted	Normal	An exception occurs in the HitRefinerAssociator in LineCluster and TrajCluster when RawDigits are not present		03/22/2018 12:59 PM
17338	Milestone	Accepted	Normal	Phase 3 Tracking Data Product		01/09/2018 02:42 PM
17247	Feature	Accepted	Normal	Space Charge Effects (SCE) can shift the charge only within the TPC		01/09/2018 03:01 PM
15289	Necessary Maintenance	Accepted	Low	Pointless __GCCXML__ in LArSoft data products		01/09/2018 02:52 PM
14282	Task	Accepted	Normal	Design an interface for access of reconstructed particle hierarchy ("particle flow") information		01/09/2018 02:53 PM
14281	Task	Accepted	Normal	Provide an interface for access of reconstructed track information		01/09/2018 02:53 PM
13276	Feature	Accepted	Normal	PhotonVisibilityService should be factorised		03/29/2018 01:43 PM
12953	Idea	Accepted	Normal	Include paths in FHiCL include directives		09/06/2016 11:19 AM
12785	Idea	Accepted	Low	review typedef cryo_tpc_view_hitmap		11/16/2017 01:53 PM
12602	Feature	Accepted	Low	Add a compact representation for the plane ID, TPC ID and cryostat ID		11/16/2017 01:47 PM

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11872	Task	Accepted	Normal	Establish a standard way to represent particle identification results		11/16/2017 01:49 PM
11871	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
11066	Feature	Accepted	Low	Load geometry from ROOT file instead of GDML file		11/16/2017 03:36 PM
<b>Work in progress (1)</b>						
18025	Bug	Work in progress	Normal	Need of update translation of GENIE interaction type to NuanceReactionCode	Robert Hatcher	03/12/2021 03:30 PM
<b>Under Discussion (3)</b>						
24430	Bug	Under Discussion	Normal	Wrong position of reflective foil on OpFastScintillation in larsim		06/01/2020 10:40 AM
20029	Necessary Maintenance	Under Discussion	Normal	SimpleBoundary() should be moved from DetectorProperties to LArProperties		08/09/2019 02:52 PM
18990	Feature	Under Discussion	Normal	Function to return a list of compatible data products	Erica Snider	03/22/2018 01:31 PM