

## LArSoft - Milestone #9818

### Add knowledge of TPC topology in GeometryCore

08/13/2015 11:21 AM - Gianluca Petrillo

<b>Status:</b>	Closed	<b>Start date:</b>	08/13/2015
<b>Priority:</b>	Low	<b>Due date:</b>	
<b>Assignee:</b>	Erica Snider	<b>% Done:</b>	0%
<b>Category:</b>	Geometry	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>Experiment:</b>	LArSoft		
<b>Description</b>			
<p>Currently, geometry objects, and in particular TPCs and cryostats, "know" their own position but do not know about the neighbouring volumes.</p> <p>In a multi-TPC context objects reconstructed in the various TPCs need to be stitched together, and merging the separate volumes in a global one is another possible reconstruction approach.</p> <p>The detector topology information will make these tasks easier.</p> <p>A set of requirements, goals and interface need to be defined as a first step.</p> <p>The implementation is likely to land in geo::GeometryCore and in the geo::XxxxGeo classes.</p>			
<b>Related issues:</b>			
Related to LArSoft - Idea #8954: New geometry features		<b>Closed</b>	<b>09/29/2016</b>

#### Associated revisions

##### Revision 677ec8c2 - 07/26/2017 03:55 PM - Gianluca Petrillo

Merge branch 'feature/gp\_Issue9818' into develop

Merging the first part of work for issue #11522 (may also be useful for issue #9818).

#### History

##### #1 - 08/13/2015 02:18 PM - Gianluca Petrillo

- Related to Idea #8954: New geometry features added

##### #2 - 08/18/2015 11:02 AM - Lynn Garren

- Status changed from New to Feedback

- Assignee set to Gianluca Petrillo

Gianluca will ask DUNE about their requirements.

##### #3 - 09/08/2016 01:57 PM - Katherine Lato

- Status changed from Feedback to Accepted

- Assignee deleted (Gianluca Petrillo)

- Target version set to 2017-1-quarter

Further discussion and design is needed before this can be implemented. Will relook at this in early 2017.

##### #4 - 02/20/2017 03:27 PM - Katherine Lato

- Tracker changed from Feature to Milestone

- Status changed from Accepted to Assigned

- Assignee set to Gianluca Petrillo

- Target version deleted (2017-1-quarter)

This is part of the long-term priorities for LArSoft's workplan for 2017, so it is being assigned.

**#5 - 03/29/2018 01:46 PM - Katherine Lato**

- Assignee changed from *Gianluca Petrillo* to *Erica Snider*

**#6 - 02/07/2019 02:39 PM - Erica Snider**

- Status changed from *Assigned* to *Closed*

We believe that global wire coordinates have fulfilled the immediate need for this. The remaining work for global wire coordinates must be completed by DUNE. Should further optimization be required, this ticket can be re-opened.

Closing this ticket.