

## LArSoft - Task #14366

Milestone # 14363 (Assigned): Support detectors with drift direction different than x axis

Feature # 14364 (Closed): Build a geometry infrastructure for support of arbitrary drift direction

### Geometry wire intersection computation is not interoperable with respect to arbitrary drift direction

11/02/2016 03:19 PM - Gianluca Petrillo

<b>Status:</b>	Closed	<b>Start date:</b>	11/07/2016
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Gianluca Petrillo	<b>% Done:</b>	100%
<b>Category:</b>	Geometry	<b>Estimated time:</b>	36.00 hours
<b>Target version:</b>		<b>Spent time:</b>	30.00 hours
<b>Description</b>			
The intersection methods (WireIDsIntersect, ChannelsIntersect and IntersectionPoint in GeometryCore) are implemented in a way that assumes the x coordinate to be the drift direction. The interface also reflects that, returning just two coordinates to describe the intersection.			
<b>Related issues:</b>			
Follows LArSoft - Task #14705: Preparatory work for drift direction support		<b>Closed</b>	<b>11/04/2016</b>

#### History

##### #1 - 11/07/2016 10:45 AM - Lynn Garren

- Status changed from New to Assigned
- Assignee set to Gianluca Petrillo
- Target version set to 2017-1-quarter

Some worry about speed. Gianluca will profile.

##### #2 - 11/29/2016 03:45 PM - Katherine Lato

- Due date set to 12/06/2016
- % Done changed from 0 to 10
- Estimated time set to 30.00 h

##### #3 - 11/29/2016 03:53 PM - Gianluca Petrillo

- Follows Task #14705: Preparatory work for drift direction support added

##### #4 - 11/29/2016 03:56 PM - Katherine Lato

- Tracker changed from Support to Task
- Target version deleted (2017-1-quarter)

##### #5 - 06/14/2017 01:46 PM - Gianluca Petrillo

- Status changed from Assigned to Resolved

Geometry methods have been provided (e.g. [geo::GeometryCore::WireIDsIntersect\(\)](#)) supporting 3D intersection.

##### #6 - 06/14/2017 01:47 PM - Gianluca Petrillo

- Status changed from Resolved to Closed
- % Done changed from 10 to 100

##### #7 - 06/27/2017 01:36 PM - Katherine Lato

- Estimated time changed from 30.00 h to 12.00 h

reconciling the estimate and the actual

##### #8 - 06/27/2017 01:38 PM - Katherine Lato

- Estimated time changed from 12.00 h to 30.00 h

**#9 - 06/27/2017 01:39 PM - Katherine Lato**

- Estimated time changed from 30.00 h to 24.00 h

**#10 - 06/27/2017 01:40 PM - Katherine Lato**

- Estimated time changed from 24.00 h to 36.00 h

**#11 - 10/12/2017 11:43 AM - Katherine Lato**

- Due date deleted (01/03/2017)

**#12 - 10/12/2017 11:44 AM - Katherine Lato**

- Due date deleted (11/07/2016)