

## LArSoft - Necessary Maintenance #24601

### Scintillation visibility by semi-analytic parametrization not supported for multi-cryostat detectors

07/06/2020 09:26 PM - Gianluca Petrillo

<b>Status:</b>	Accepted	<b>Start date:</b>	07/06/2020
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>	Simulation	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>Experiment:</b>	-		
<b>Description</b>			
It appears that in several places larsim/LegacyLArG4/OpFastScintillation.cxx code assumes a single cryostat.  I don't understand the code well enough to fix the issues (in fact, I don't even know if there are actual issues), but this can be a joint effort.			
<b>Related issues:</b>			
Related to LArSoft - Bug #24600: OpFastScintillation only propagates light in...		<b>Closed</b>	<b>07/06/2020</b>

#### History

##### #1 - 07/06/2020 09:26 PM - Gianluca Petrillo

- Related to Bug #24600: OpFastScintillation only propagates light in the first cryostats added

##### #2 - 07/13/2020 10:36 AM - Kyle Knoepfel

- Status changed from New to Feedback

- Subject changed from Scintillation visibility by semi-analytic parametrization not supported for multi-cryostat detectors to Scintillation visibility by semi-analytic parametrization not supported for multi-cryostat detectors

Is this issue addressed by larsim PR (<https://github.com/LArSoft/larsim/pull/30>)?

##### #3 - 07/13/2020 04:16 PM - Gianluca Petrillo

It is not.

That pull request just attempts to restore the functionality of the *other* photon visibility mapping method, the lookup table.  
The subject here is to support the semi-analytic model.

##### #4 - 07/27/2020 10:27 AM - Kyle Knoepfel

- Status changed from Feedback to Accepted

We will organize a meeting to discuss this issue.