

## LArSoft - Bug #7060

Bug # 6394 (Closed): Verify that association query objects are created outside tight loops

### FindManyP() usage in CosmicTracker module

09/22/2014 08:35 PM - Gianluca Petrillo

<b>Status:</b>	Closed	<b>Start date:</b>	09/22/2014
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Gianluca Petrillo	<b>% Done:</b>	100%
<b>Category:</b>	Reconstruction	<b>Estimated time:</b>	1.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>Occurs In:</b>		<b>Co-Assignees:</b>	
<b>Experiment:</b>	LArSoft		

#### Description

CosmicTracker module show non-optimal use of associations.

larreco/TrackFinder/CosmicTracker\_module.cc

I notice dubious practise in CosmicTracker::produce().

The action I recommend:

- since you use it, #include "art/Framework/Core/FindManyP.h"
- bring the FindManyP instance out of the loops
- use const std::vector<art::Ptr<T>>& to store the result of FindManyP::at(), that returns a constant reference

Contact person: Brian Rebel ([brebel@fnal.gov](mailto:brebel@fnal.gov)).

#### History

##### #1 - 10/21/2014 03:10 PM - Gianluca Petrillo

- Status changed from Assigned to Resolved
- % Done changed from 0 to 100

Fixed, tested, committed and pushed.

##### #2 - 11/14/2014 10:23 AM - Gianluca Petrillo

- Status changed from Resolved to Closed