

uBooNE Reconstruction - Task #14204

Milestone # 13399 (New): Parent reconstruction milestones/tasks for reconstruction necessary for MCC8 and reconstruction "v6"

Milestone # 13400 (New): MCC8 and "v6" reconstruction development

Milestone # 13403 (New): Alternate Reconstruction Paths

Integration of Cluster3D into LArSoft reconstruction

10/21/2016 10:51 AM - Tracy Usher

Status:	Work in progress	Start date:	08/01/2016
Priority:	Normal	Due date:	01/31/2017
Assignee:	Tracy Usher	% Done:	50%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
The Cluster3D pattern recognition/event reconstruction needs updating to accommodate dead channels and needs to continue to progress to become a useful alternative pattern recognition approach.			

History

#1 - 10/21/2016 10:51 AM - Tracy Usher

Cluster3D has progressed. A fair bit of refactoring to split the steps into separate algorithms so that production of 3D space points, clustering of space points (including rejection of ambiguous clusters), basic analysis of clusters and then output to the data store has not been completed. Important improvement is to include the dead channels from the channel status database (also by hand including known "quiet wires" in the first induction plane of MicroBooNE). At the moment we only account for a dead channel in one of the three planes we are trying to form a space point, to do is to try to handle where there are dead wires in more than one plane.

The latest round of processing has been pushed to feature/usher_cluster3dupdates of larreco and lardata.

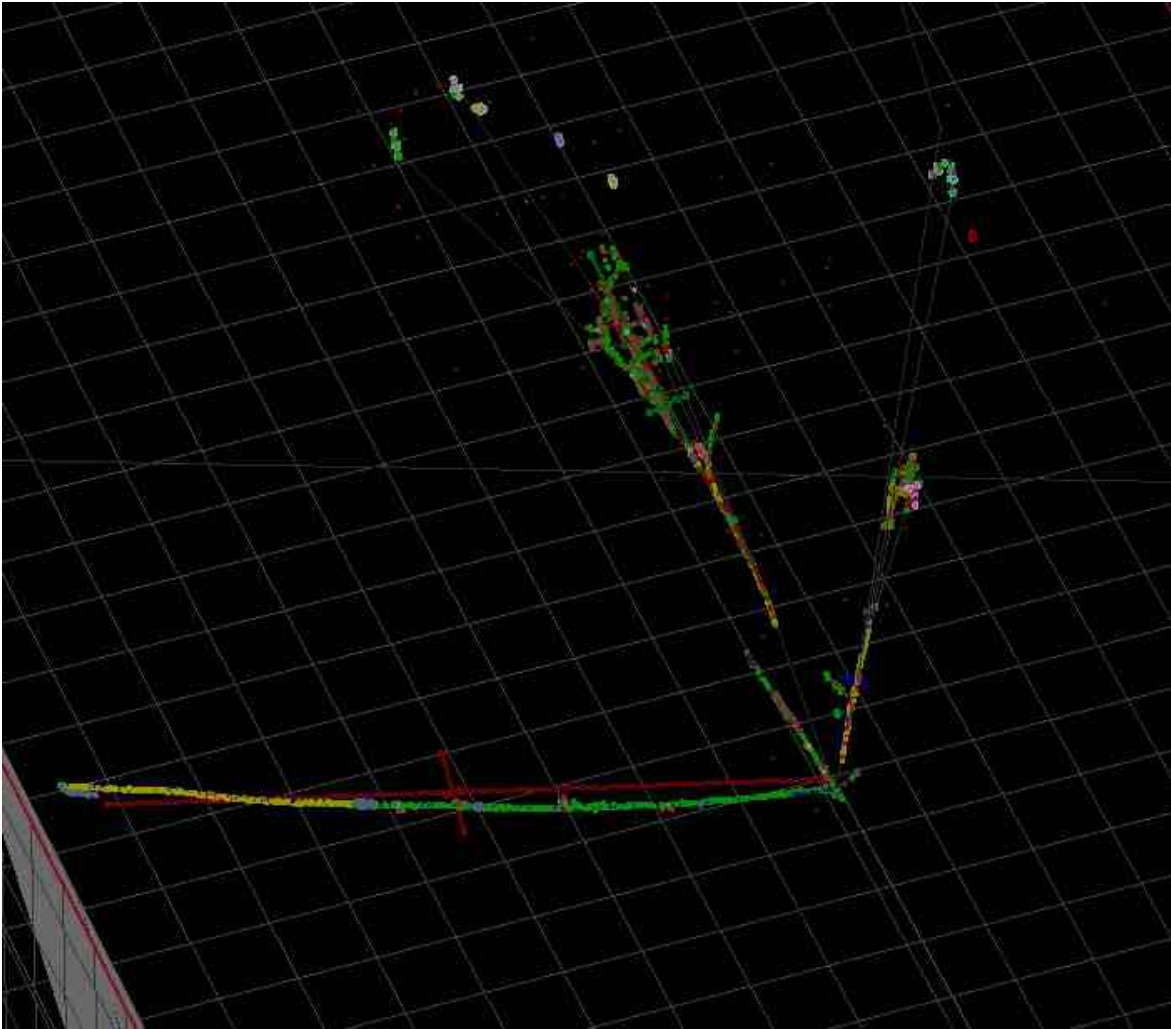
#2 - 10/21/2016 10:54 AM - Tracy Usher

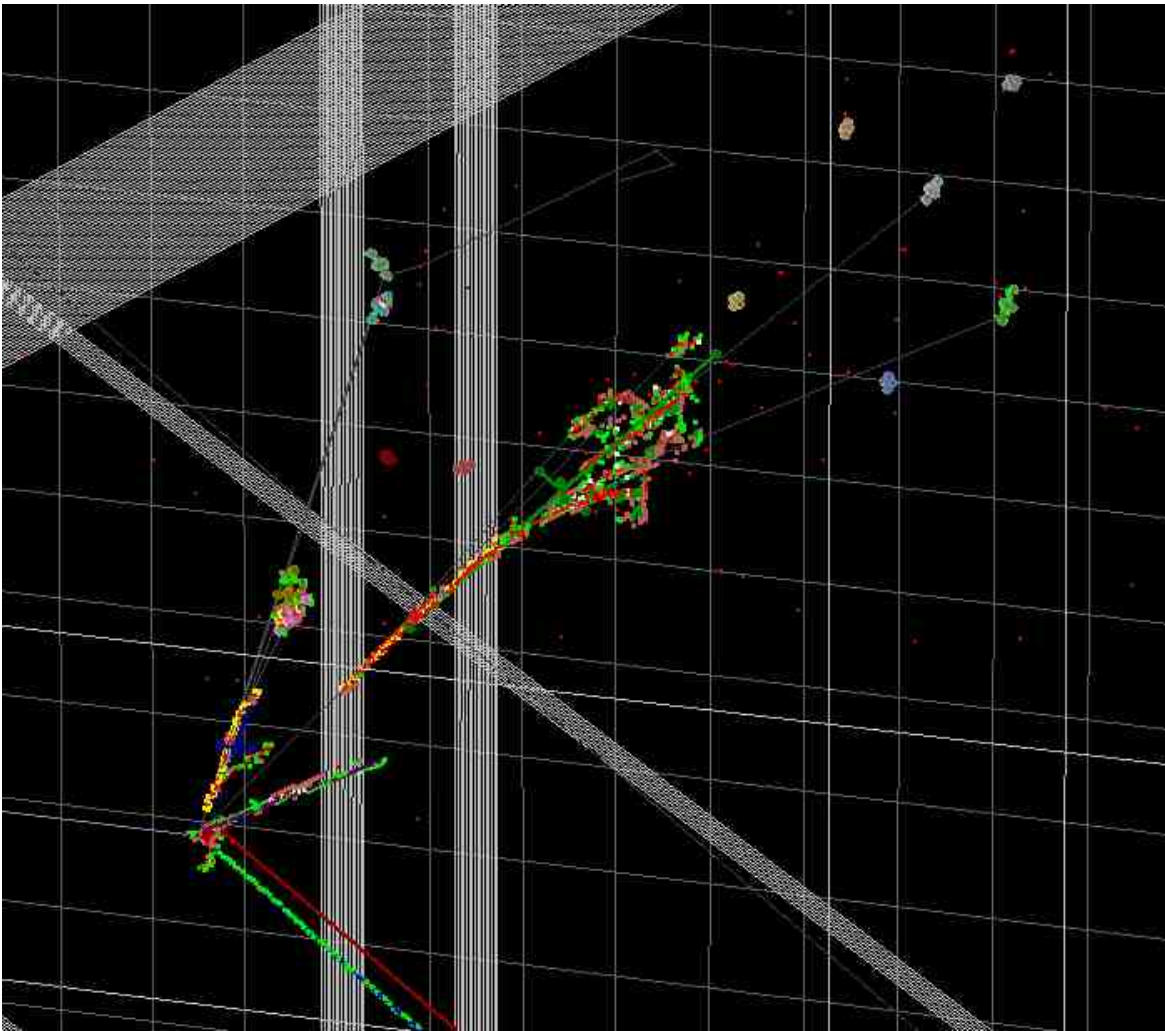
- File *Cluster3DEvent.jpg* added

- File *Cluster3dEvent_close.jpg* added

- % Done changed from 0 to 50

An example event at the output of cluster3d:





#3 - 10/21/2016 11:01 AM - Tracy Usher

- Status changed from New to Work in progress

- Start date changed from 10/21/2016 to 08/01/2016

Files

Cluster3DEvent.jpg	27.2 KB	10/21/2016	Tracy Usher
Cluster3dEvent_close.jpg	44.7 KB	10/21/2016	Tracy Usher