

## Center for High Energy Physics

## Dieter's Cosmic Tracks on the Live Display

7/25/2013

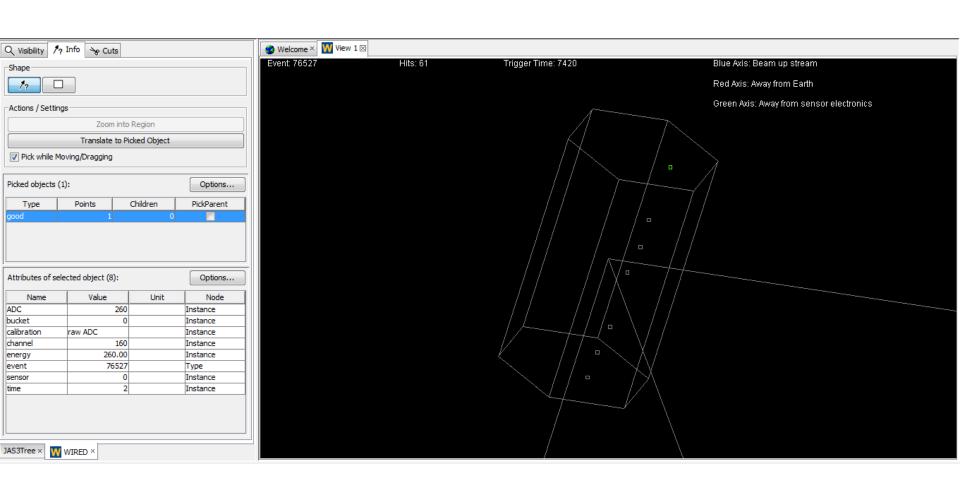


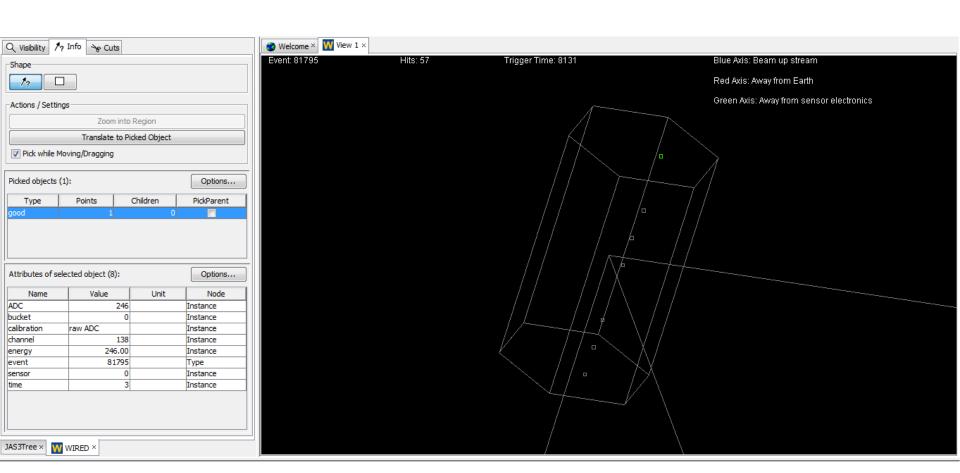
I pulled up each one of the events that Dieter listed from his cosmic runs. I tried to mostly orient the pictures the same way, with the top of the image being the top of his stack. The text labels for the orientation of the axes are from the SLAC Test Beam setup and are NOT applicable here.

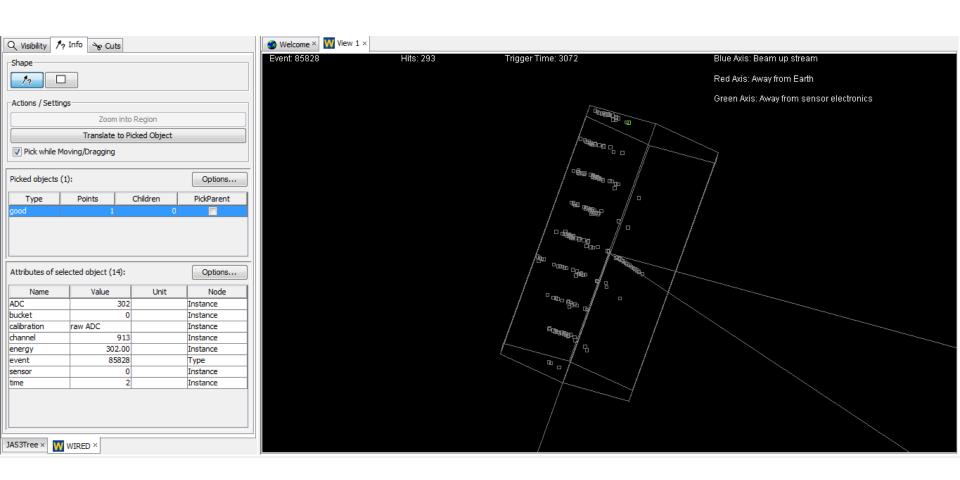
The still pictures are difficult to orient in your mind's eye, but most of the tracks are fairly straight forward. When there is a more interesting geometry I used some extra images, but it is far superior to look at them on the display in real time as they are rotated.

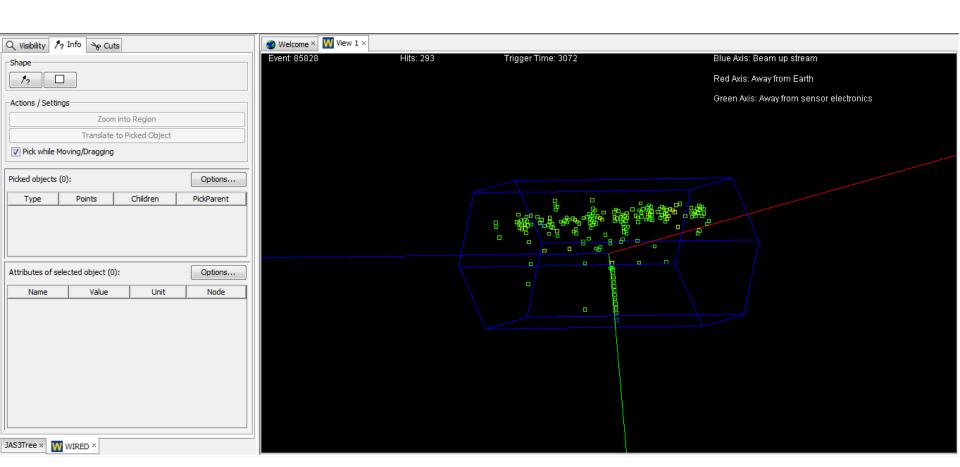
I also saved a few extra images of other events that looked interesting, and I'll append those to the end of the slideshow.

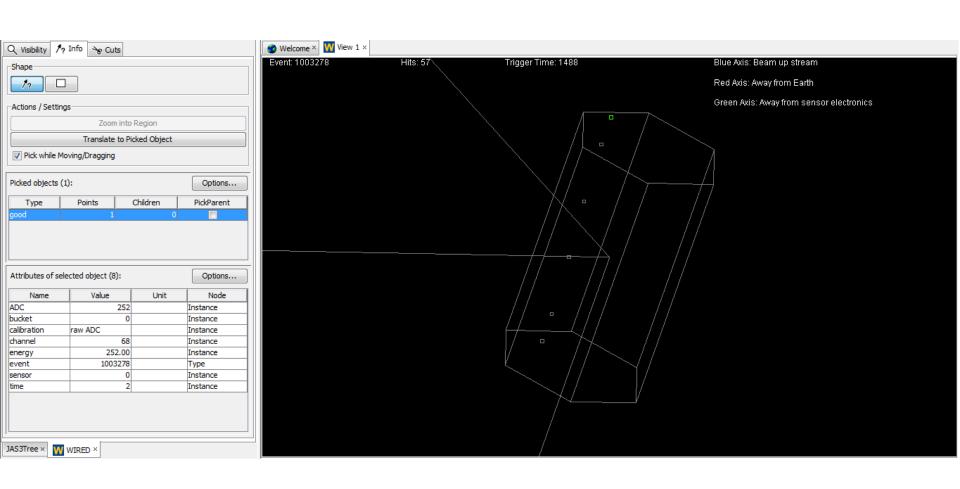
I noticed there are two types of tracks: most of them hit a single pixel on each sensor, but there are several that have wider tracks. Most of them are on the right side of the sensor (the way the images are oriented here). I don't know if there is something about the setup that would sometimes block out cosmics on the other side, or if the sensor itself has some quadrant bias. I think it would be fairly quick with the Test Beam to move the beam around in steps in a complete circle about halfway between the center and the edge to see if there is any difference between the quadrants.

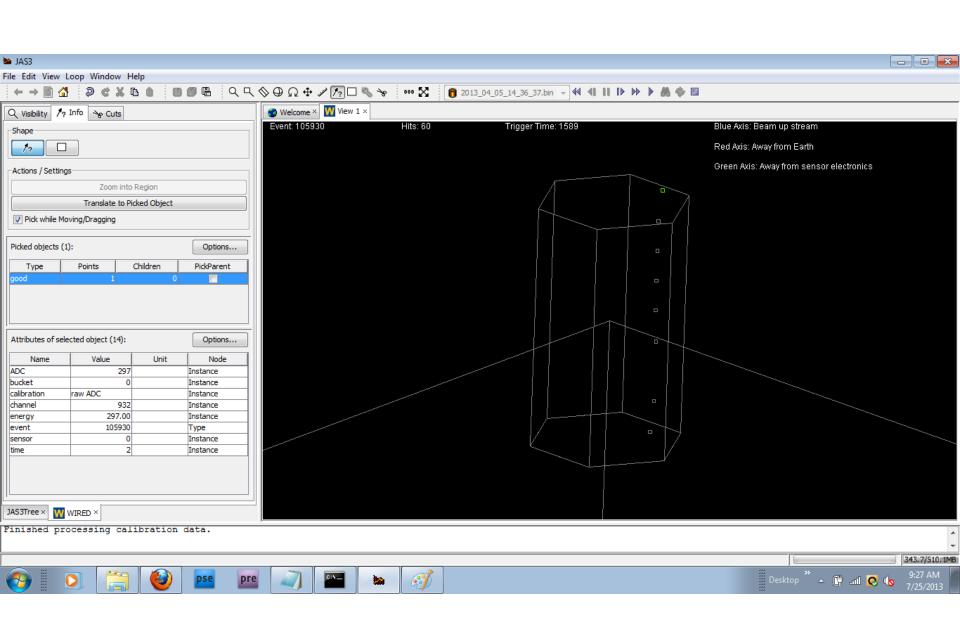


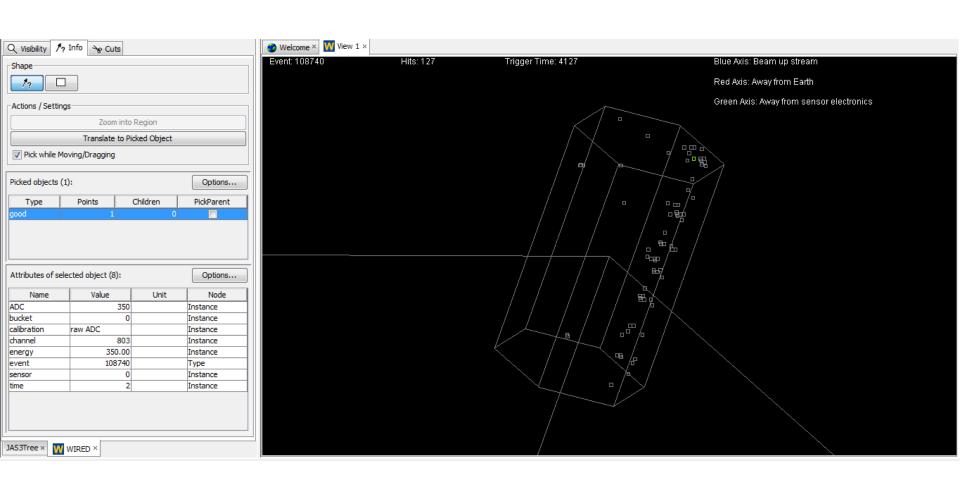


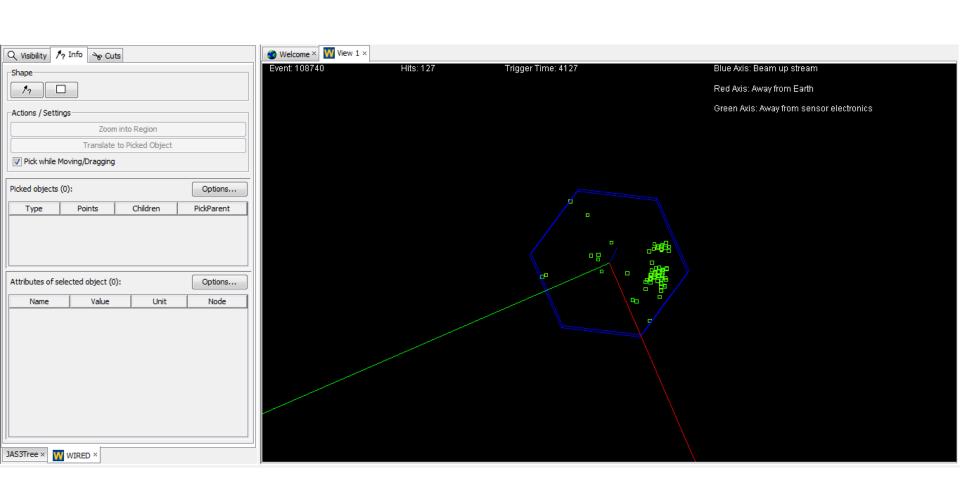


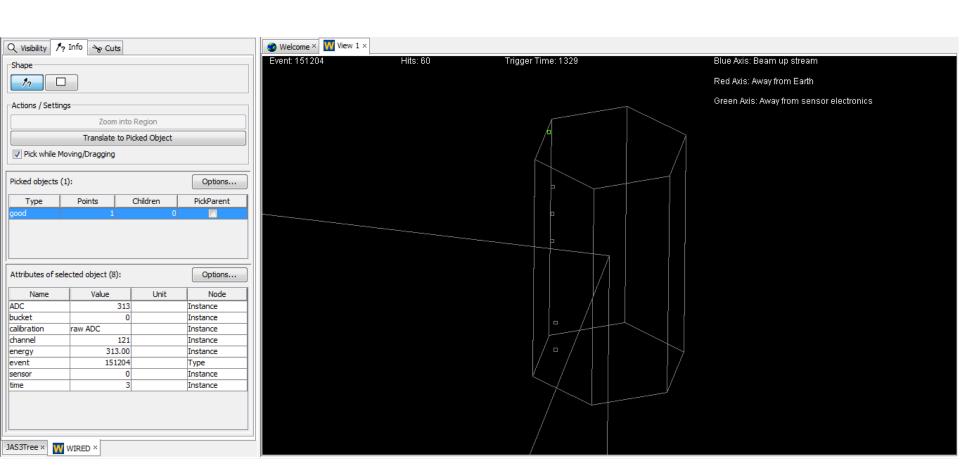


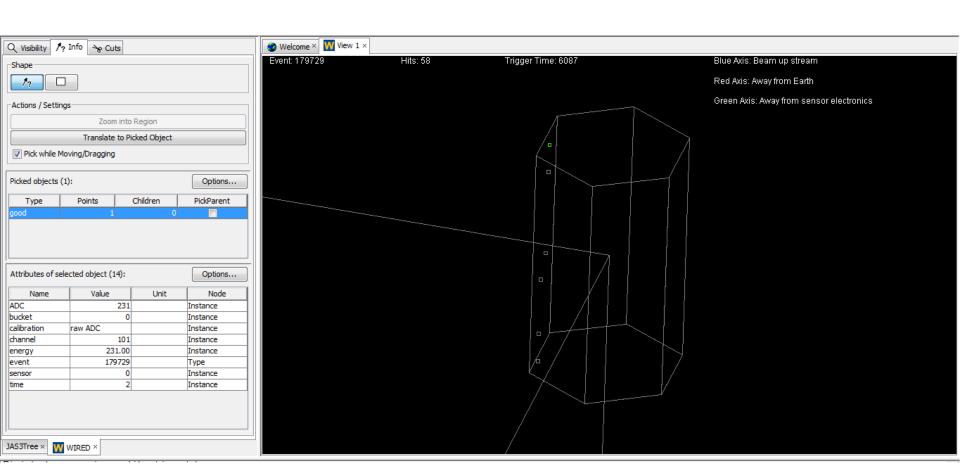


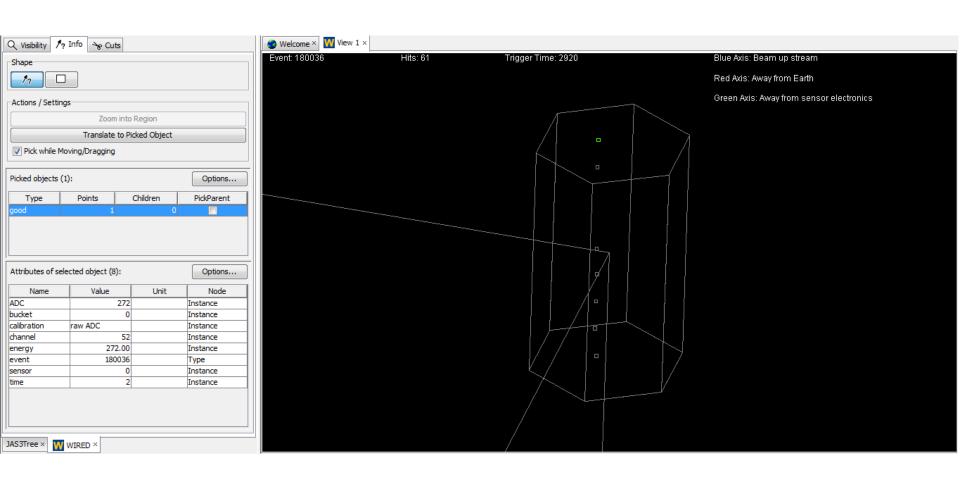


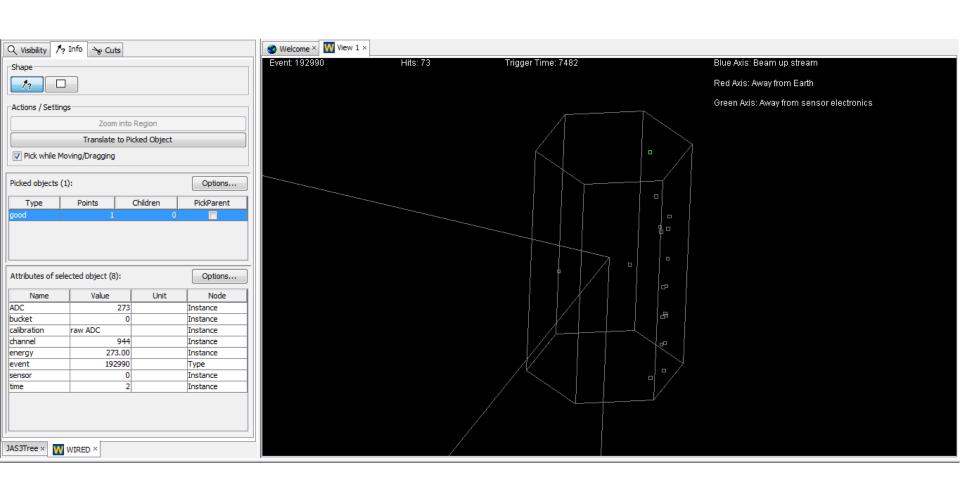


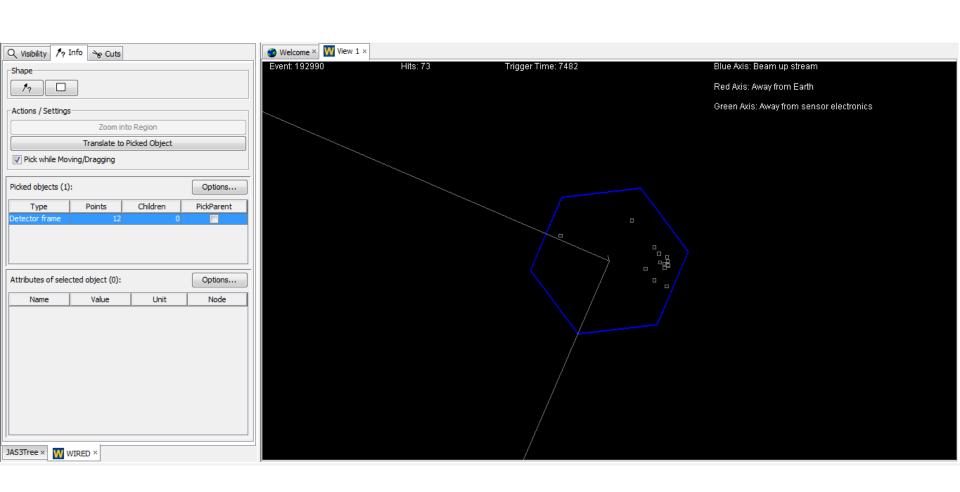


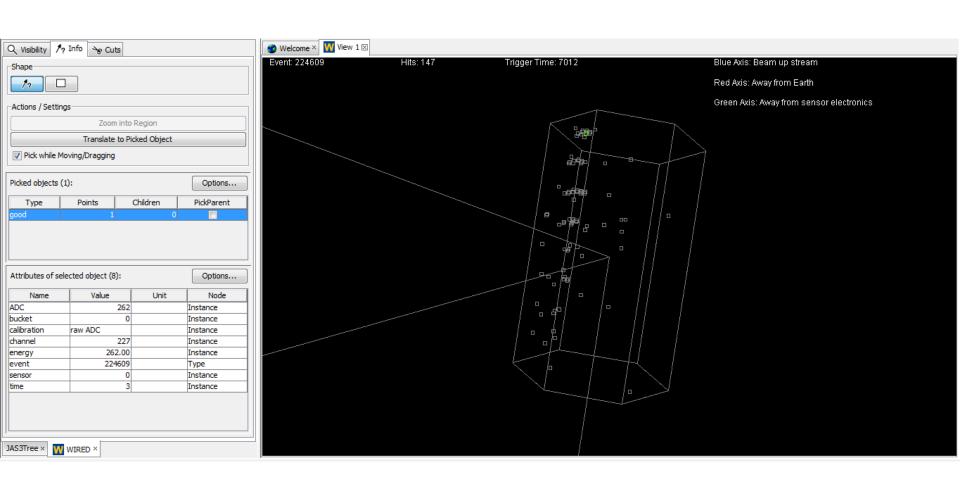


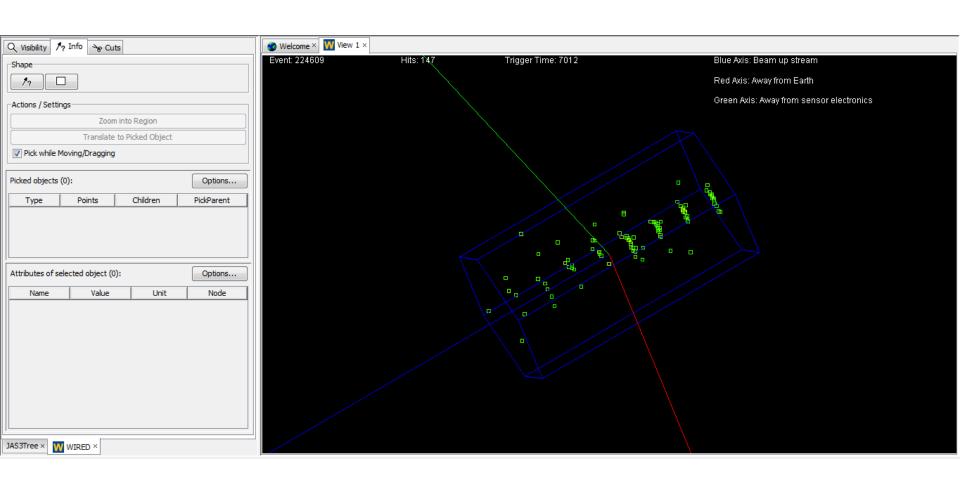


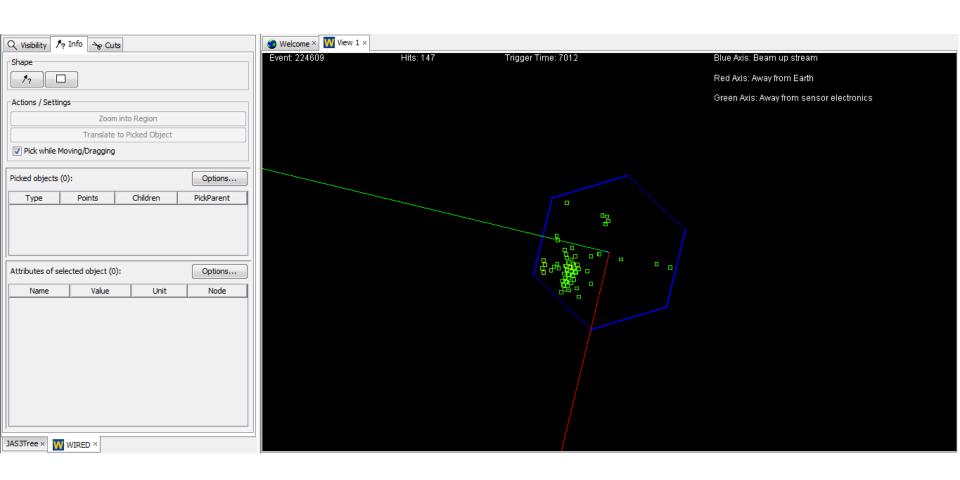


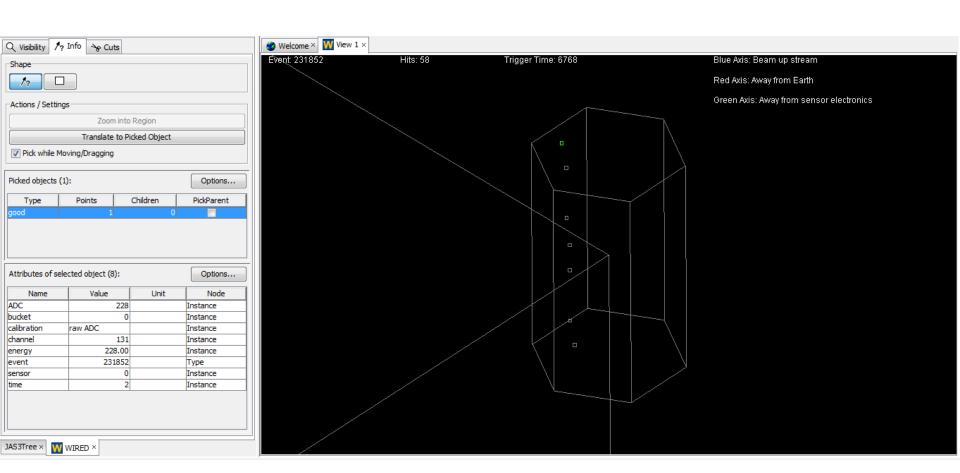


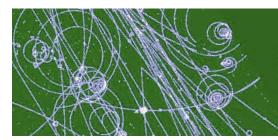












## **Center for High Energy Physics**

## **END**

