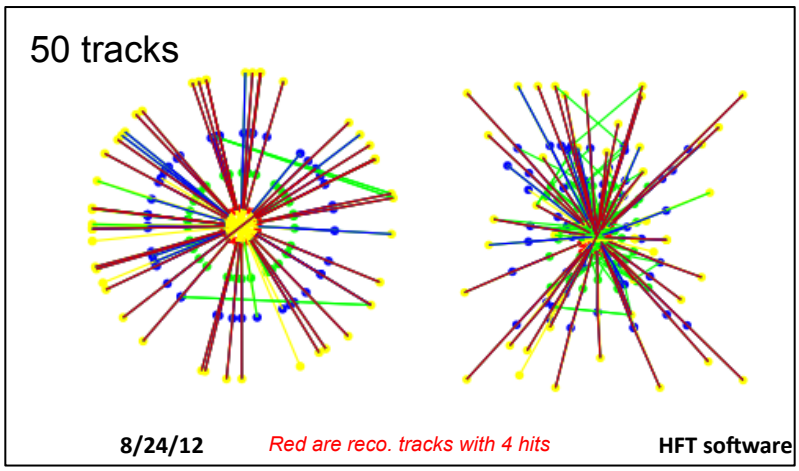
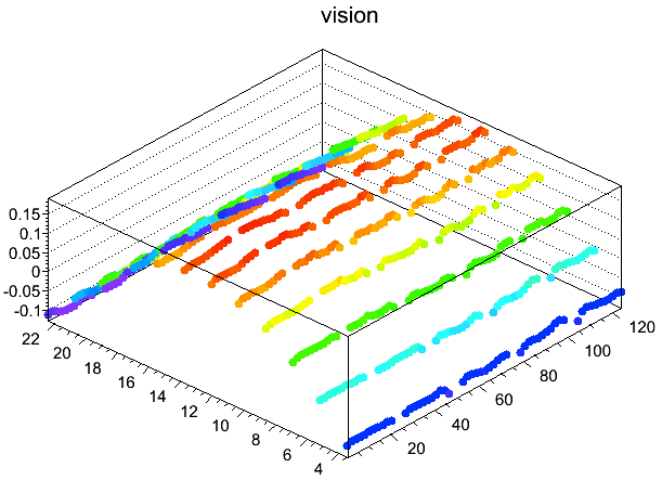
WBS 1.6 Software

1) **Alignment Software and Simulations**
   a) Further work was performed on the offline chain to resolve issues with the new SSD geometry which is rotated in phi as compared to the old configuration in the SSD/SVT era.
2) **Tracking**
   a) Ivan Kisel and collaborators visited BNL this month. Some initial simulation work was done to evaluate the use of CA (Cellular Automaton) technique for HFT seed and/or track finding. Initial results were poor; more work is needed in order to optimize the performance of the package.
   b) The figure below shows a reconstructed simulated events with only 50 tracks in it.



3) **Survey**
   a) PIXEL: further survey work was performed on the prototype sector and issues that emerged are addressed. The figure below shows scans of the first 5 chips on a ladder that were obtained using the visual probe.