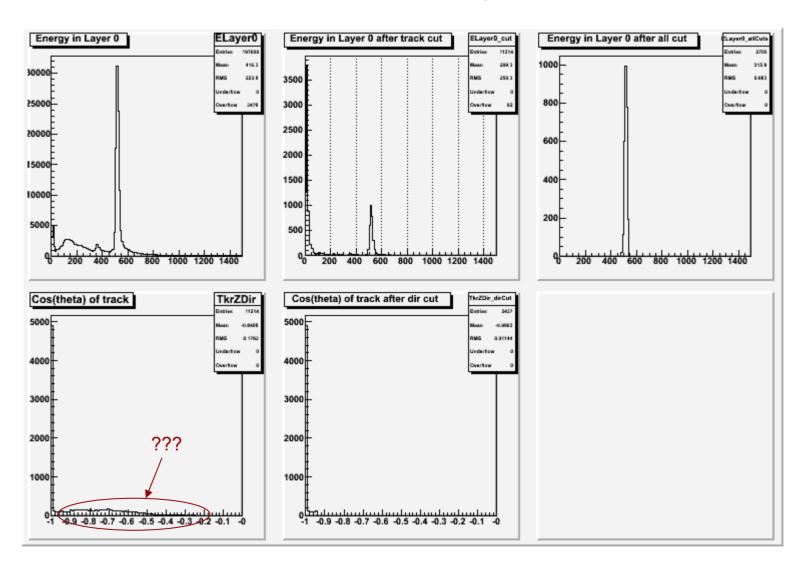
More on Cluster Widths

Leon R
13 December, 2006
Beamtest VRVS Meeting

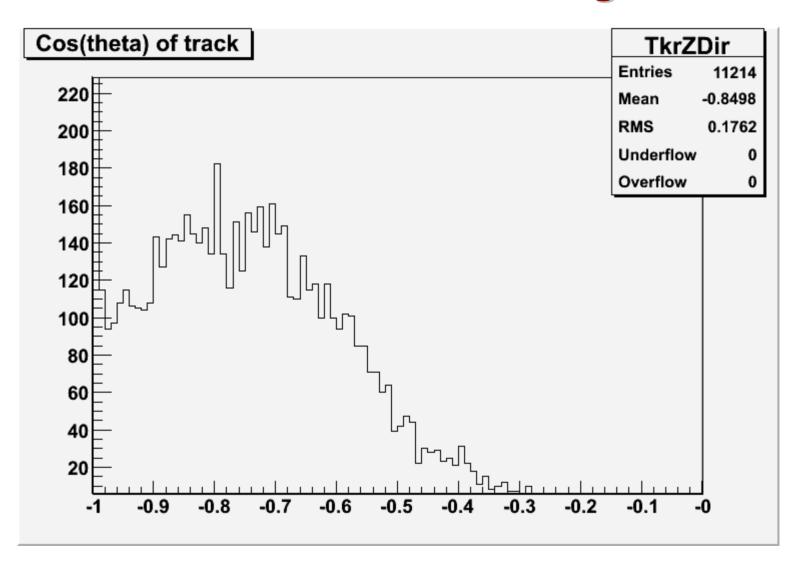
Runs and Cuts

- Carbon Runs
 - $-2572 (0^{\circ}), 2540 (30^{\circ}), 2552 (60^{\circ})$
 - recon.root files
- Cuts
 - not random trigger
 - 1 track
 - 36 hits (24 for 60° run)
 - $-\cos(\theta)$ in band around correct direction
 - Cal layer-0 energy in band around expected energy

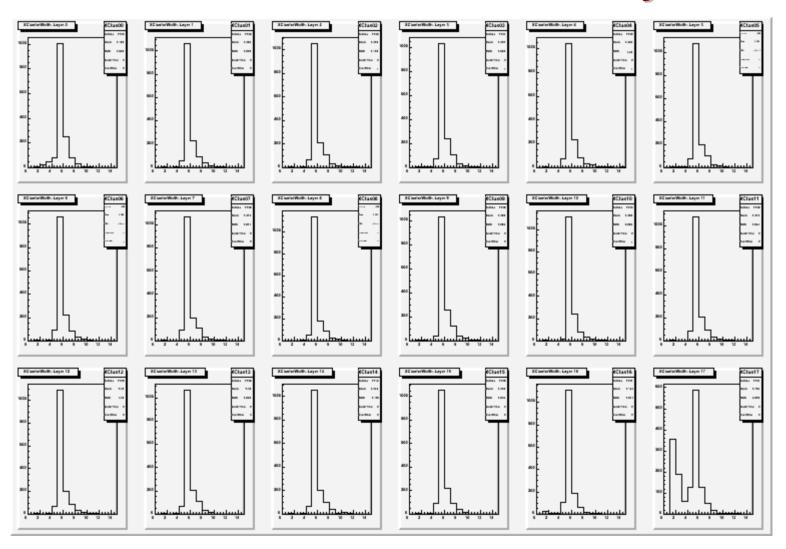
Results of Cuts, 0° Run



A Closer Look that the Off-Angle Events



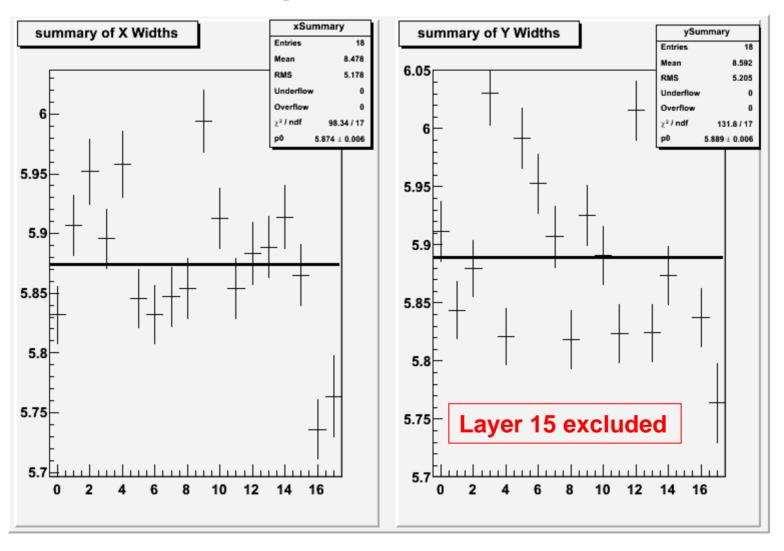
Width of Clusters for all X Layers



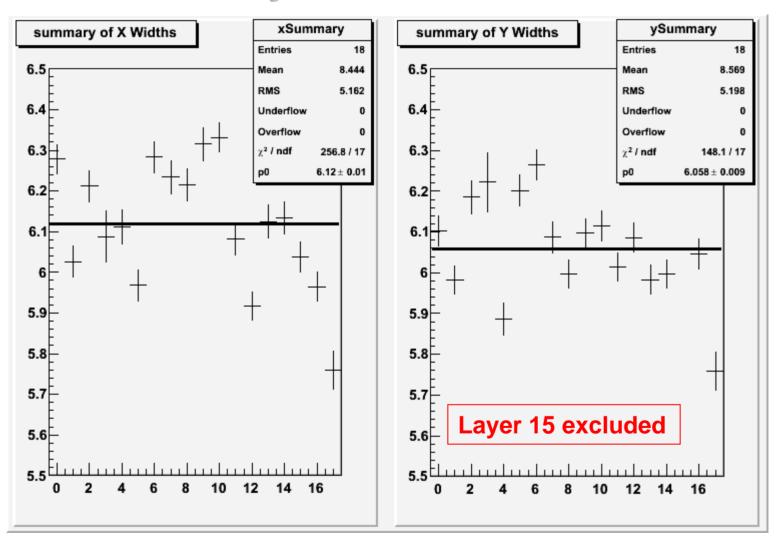
Width of Clusters for all Y Layers



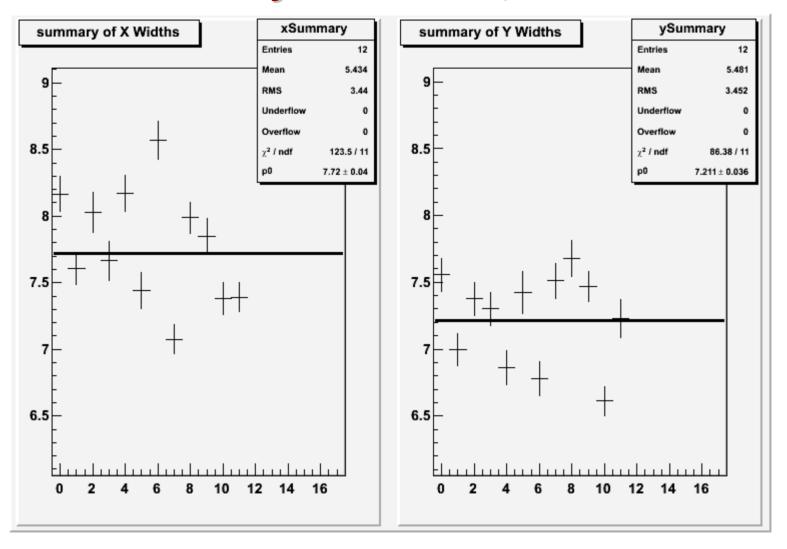
Summary of Widths, 0° Run



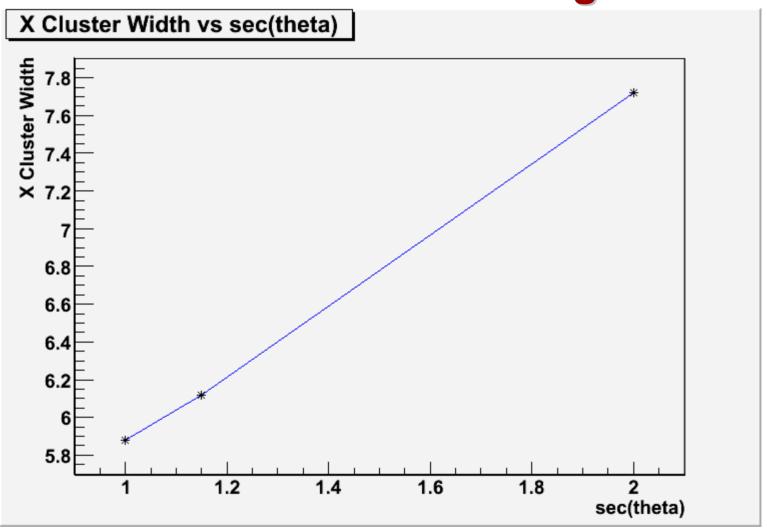
Summary of Widths, 30° Run



Summary of Widths, 60° Run

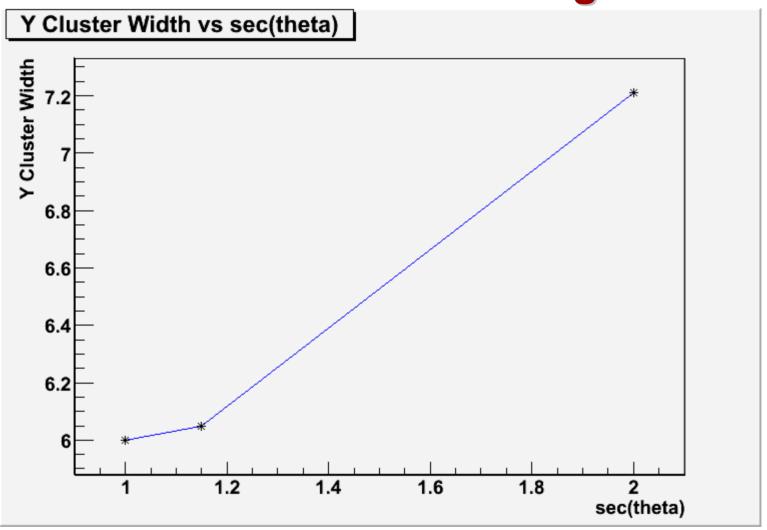


X Cluster Width vs Angle



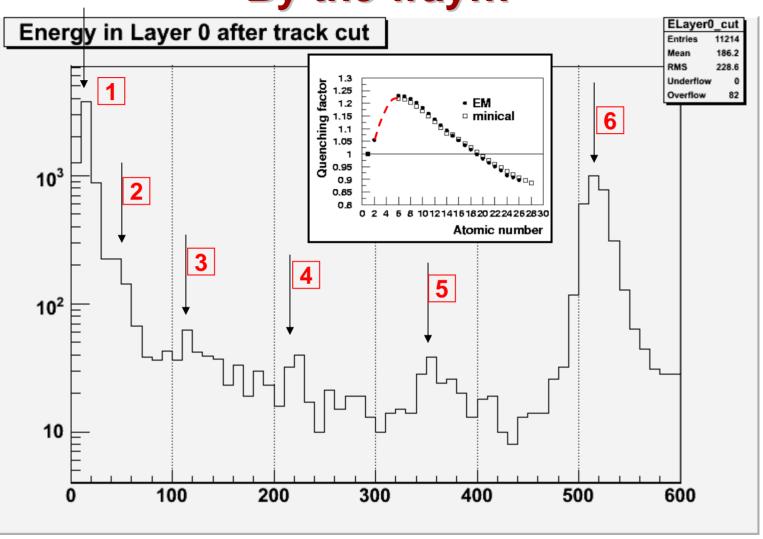
Along x, energy deposit is in one strip and proportional to $sec(\theta)$

Y Cluster Width vs Angle



Along y, energy deposit can be in several strips; dependence is more complicated.

By the way...



Arrows show expected energy deposit for an ion of the indicated charge. (anti-quenching included)