

TOF-Clustering

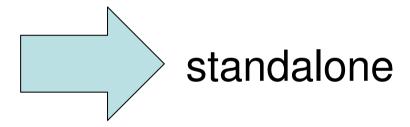
Note:

- •v43 production
- •Clustering code less then 48 hours old
 - Debugging in progress!



Current version:

- geometrical clustering
 - · based on slat distribution
- → multiplicity
- PID
 - leading Z analysis
- → Charge of Cluster
- Check
 - Assumption: Total charge = 6 <-> Projectile fragments
 - VTX mult vs Tof mult



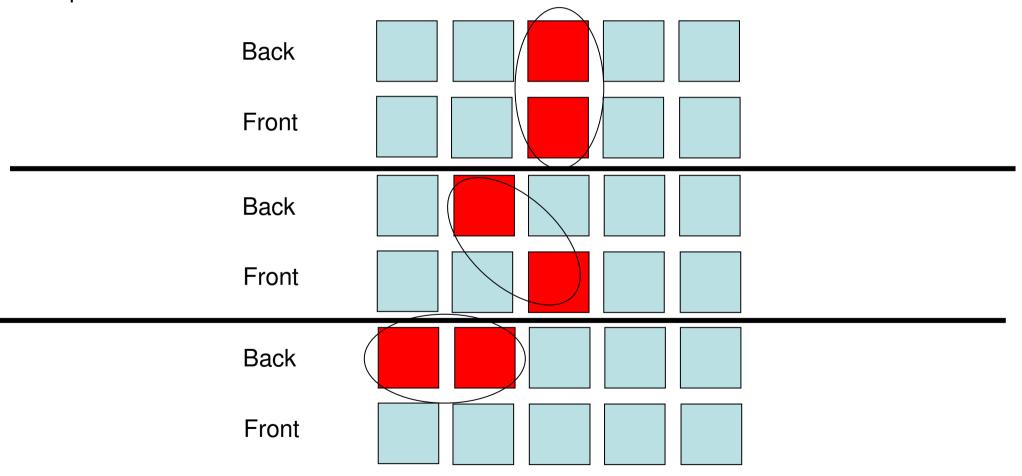


Geometrical clustering

Charge independent and tof!



simple cases:





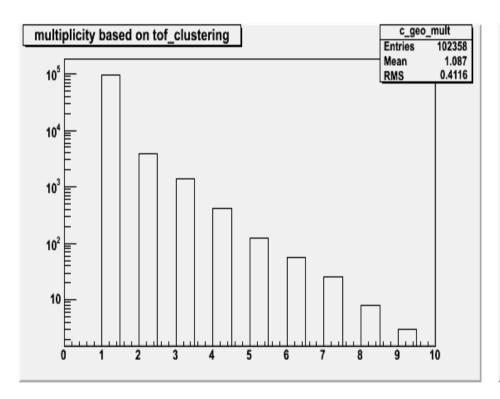
Geometrical clustering

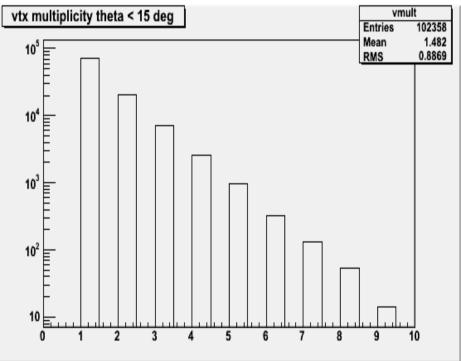
Charge and tof independent!



problematic cases: <- overestimation of low multiplicity Back Front Back Front Back Front







improvements



- use PID for
 - standalone clustering
 - rating of cluster goodness
 - subdivide clusters with high hit number per cluster
- Problems
 - Code not fully debugged
 - Z=-100 hits

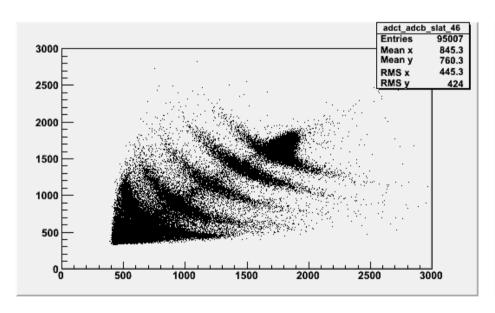


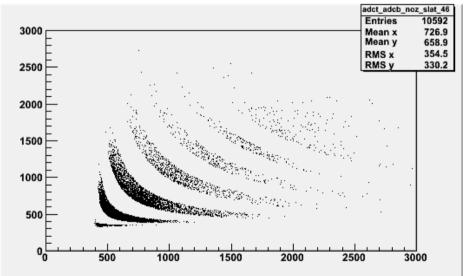
improvements



All hits

Z=-100 hits







ToDo:



- PID
 - Bugfixing <- hopefully quite fast
- use TOF
 - standalone clustering <- first test version near completion
 - verifiy clusters