Status of the FPCCD software

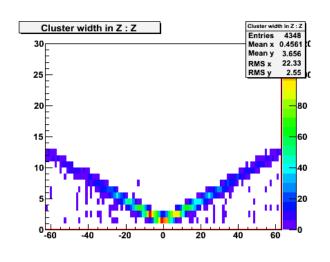
Physics and Software meeting

2011/12/02 D.Kamai (Tohoku University)

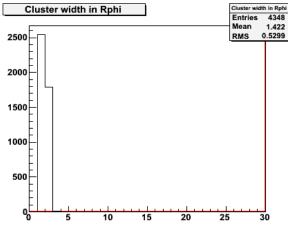
Current states

- **■** FPCCD software
 - enable to handle the Cluster shape information.
 - adjusted for new system.

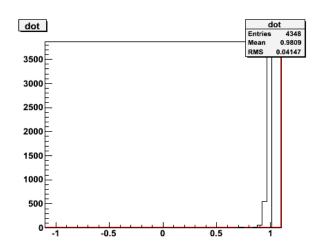
Cluster shape mu- 100GeV



Cluster width in Z vs Z postion

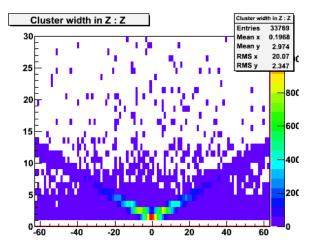


Cluster width in Rphi

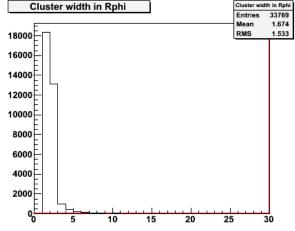


Dot product

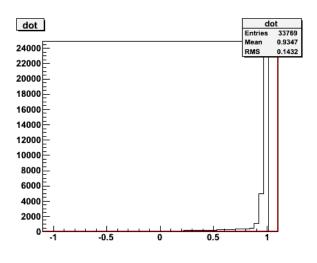
Cluster shape ttbar > bbqqqq



Cluster width in Z vs Z postion

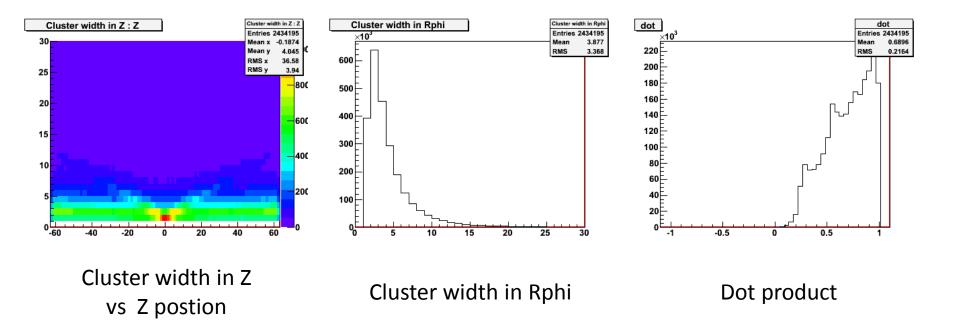


Cluster width in Rphi



Dot product

Cluster shape pair background



Dot product seems to can be used as cut criteria.

New Tracking System

■ New Tracking code is being developed by Steve.

■ FPCCD software was adjusted for new system.

Plan

■ Check the tracking performance with FPCCD software.

- Dot product of the direction of cluster and the position vector from IP.
 - cluster direction is 3D vector (becomes vertical vector when cluster is only 1 pixel)
 - Can reject the particle from non IP.

