Status of the FPCCD software

Physics and Software meeting

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- To check the resolution under the background is necessary to estimate the other parameters (tag efficiency, charge ID performance).
 - Tracking tt event together with 1 train pair background was tried.
 - Because of many clusters, to analyze many events is difficult.
 - Background rejection using cluster shapes was tried before tracking.

Cluster width

Cluster width in z and φ direction are used to reject background.

Z dependence of #Pixels in Z direction

• #Pixels of signal depends on Z.



Z dependence of cluster width in Z

Z dependence of cluster width in Z direction was checked.



There are the distribution proportional to Z for tt event.

Cluster width in ϕ direction

Cluster width in φ direction was checked.



• The tt event hits a few pixels in φ direction.

Summary/Plan

Tracking study

- Background rejection using cluster shapes was tried before tracking.
- There were characteristic distribution in tt event.
- Conventional algorithm will help to suppress background hits.
- IP resolution under background will be checked.