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Used for removing possible background hits



recognizing the good muon track for the further fitting

Clustering YZ plane



Clustering YZ plane



Clustering XZ plane



Clustering XZ plane



Implementation to the IFR code

1. Working on already implemented 1dim clusters

2. Choosing specific clusters

o Prototype Data zone description

100 data prototype time readout101 data prototype BiRO X102 data prototype BiRO Y

110 data prototype other detectors

- -104 data prototype BiRO for time module
- -105 data prototype Time Hi Left
- -106 data prototype Time Hi Right
- -107 data prototype Time Lo Left
- -108 data prototype Time Lo Right





Status and plans

- Clustrizer can be switched on/off by setting CLUST2D parameter in the config.txt file
 - Current version of the clusterizer is working with the prototype data





for the purpose of the test beam data analysis

Further steps:

- Possible modifications
- Extension for working with the full detector data

Marcin's input

- Updated software to work with new compilers (tested also by Jarek)
- Resampling BIRO readout (only for data)
 - creates new clusters for multiple hits
 - if there are neighbouring samples that are fired, a certain variable will be filled with the value of the lower sample.
 - stores the number of samples, first sample etc. to ntuple

Marcin's input

• Fitter:

- new branch in ntuple file with variables
- fitted parameters with error, separately for the xz and yz view
- chi2 of the fit on xz and yz view
- chi2 of the hits

• global track informations:

- last activated layer
- first activated layer
- number of active layers
- continuity: (number of active layers)/(last)
- number of clusters
- total numbers of hits

