

Progress of CGEM cosmic data analysis in CgemBoss

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For the CGEM cosmic data analysis group

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Track reconstruction

- Look into track fit with event display (Aiqiang)
 - Some events are not well fitted due to using wrong cluster
 - Some events have too many REC clusters due to large number of fired strips (to be understood)
- Track fit (Hongpeng)
 - Optimize the selection of clusters
 - loop the possible cluster combinations and select the best candidate with track chisquare

Alignment & calibration

- Alignment (Aiqiang)
 - Might be improved after improvement of track reconstruction
- Calibration (Jingyi)
 - Calibration constants of T_{Rising} and T_{Falling} from run 1 to 17 are available
 - Path of calibration files
/bes3fs/cgemCosmic/data/timeFitCalibConst
 - define the calibration file in jobOption:
CgemCalibFunSvc.TimeFitFile="/bes3fs/cgemCosmic/data/timeFitCalibConst/{calibName}";