

DST CBM \rightarrow BM@N converter

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Problems

CBM DST structure:

- flat structure: 1 array for all tracks with links to corresponding hits
- separate array for clusters

BM@N DST structure:

- Global tracks contain links to subtracks
 (Global \rightarrow $\left\{ \begin{array}{l} Silicon \rightarrow \\ GEM \rightarrow \dots \\ CSC \rightarrow \end{array} \right.$)
- each subtrack contains links to hits
- each hit contains cluster information

Status:

- Task create structure of tracks with separated arrays of hits
- Cluster info is put into BM@N hits
- FairTrackParams, χ^2 from the global CBM track are put to the global BM@N track but there are no such params for each of the corresponding subtracks. So they are left empty.

Code example

Sample macro at: bmnroot/macro/recotools/DSTConv.C

```
void DSTConv(  
    TString inFile = "~/filesbmn/4649-cbm-full.root",  
    TString outFile = "$VMCWORKDIR/macro/run/dst-bmn-4649.root",  
    Int_t nStartEvent = 0,  
    Int_t nEvents = 100) {
```

```
BmnTrackConv * conv = new BmnTrackConv(periodId, runId, kBMNSETUP);  
fRunAna->AddTask(conv);
```