

picoDst: what is currently in...

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Codes are available:

`cv$ co StRoot/StPicoDstMake`

`cv$ co StRoot/StPicoEvent`

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Infrastructure:

Event:

RunId, EventId, FillId, MagField
PrimVtxPosition, PrimVtxPositionErr, Ranking
ListOfTriggerIds,
RefMult1-4, GRefMult, nTofMatched
VpdVz, Bbc and Zdc,
58 parameters in total

Track:

Id, χ^2 , charge,
Global momentum, Primary momentum (if primary), Origin (3D position of DCA),
dE/dx, nHits, nHitsFit, nHitsPossible (nHitsMax), nHitsDedx,
nSigma(e, π , K, p), TopologyMap,
Indices to BEMC, TOF and MTD

FMS:

Channel#, DetectorId, ADC

BEMC (BTowHit): For now we are storing towers with $E > 200$ MeV

TowerId, ADC, Energy

Infrastructure:

TOF (PidTraits):

TrackIndex, CellId, MatchFlag,
TimeOfFlight, Beta, YLocal, ZLocal, HitPosition3D

TOF (Hit):

Id, Tray, Module, Cell (all stored in one short)

MTD (Hit):

ChannelId, TriggerFlag, Leading- & Trailing-Edge time

EPD (and BBC):

Id (id, position, tile), QTdata (ADC, TAC, TDC, status flag)

BEMC (PidTraits): For tracks that matched BEMC

TrackId, Energy (HighestTower), ADC (HighestTower), $\eta, \phi, \Delta z$,
E of two neighbor towers

EmcTrigger:

Algorithm is implemented (?), ADC, and 4 BHT and 18 JP trigger flags

RPs:

Work is in progress...

Summary

We **need feedback from PWGs** about what is there and what is missing!

There is a test production: Au+Au 200 GeV run 2014

Path:

```
/star/data19/reco/AuAu_200_production_mid_2014/ReversedFullField/P17id.SL17i/2014/*/*
```

or:

```
get_file_list.pl -keys path,filename -cond
```

```
filetype=daq_reco_picodst,production=P17id,library=SL17i,storage=NFS
```