tpass7d

This "TEST" pass was to check, Norman's fixes of on "singular Matrix" Exception, and some other fixes

While not all items are checked in the pass7 checklist, a test pass 7a "tpass7a" is produced.

It has only two runs 5772: from 0.5mm dataset, and 5611: from 1.5mm data set.

More than 100 files from each run are cooked.

HPS-Java tag v111617

Ingredient	description
recon_steer	/org/hps/steering/recon/EngineeringRun2015FullRecon.lcsim
pulser_steer	/org/hps/steering/production/PulserTriggerFilter.lcsim
moller_steer	/org/hps/steering/production/MollerCandidateFilter.lcsim
v0_steer	/org/hps/steering/production/V0CandidateFilter.lcsim
fee_steer	/org/hps/steering/production/FEEFilter.lcsim
p0_steer	/org/hps/steering/production/Pair0TriggerFilter.lcsim
s0_steer	/org/hps/steering/production/Single0TriggerFilter.lcsim
tuple_steer	/org/hps/steering/analysis/MakeTuplesNoTweak.lcsim
detector	HPS-EngRun2015-Nominal-v6-0-fieldmap
fieldmap	125acm2_3kg_corrected_unfolded_scaled_0.7992.dat

Thrown Exceptions

Three types of exceptions were observed, that cause reconstruction to STOP

Exception message	Comment
Exception in thread "main" java.lang.RuntimeException: BorderedBandMatrix decomposeBand not positive definite	Only 1 file: hps_005772.95
Exception in thread "main" java.lang.RuntimeException: dphi is large...	14 files
Error opening the EVIO file reader	cached EVIO file has 0 size, a ccpr was made

Base directory fotrhis pass

/work/hallb/hps/data/engrun2015/tpass7d

```
├── dst
├── logs
├── ntuple
│   ├── FEE
│   ├── Moller
│   └── tri
├── recon
└── skim
    ├── dst
    │   ├── fee
    │   ├── moller
    │   ├── p0
    │   ├── pulser
    │   ├── s0
    │   └── v0
    ├── fee
    ├── moller
    ├── p0
    ├── pulser
    ├── s0
    └── v0
```