组会报告

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BOSS Environment Setting

- For environment setting

  $ cp -rf /afs/ihep.ac.cn/bes3/offline/Boss/cmthome/cmthome-6.6.4 ./
- Create a directory as workarea

  $ mkdir workarea
- Connect with CMT

  $ cd cmthome-6.6.4

  $ source setupCMT.csh
- Modify the requirements file

  $ vim requirements

  Uncomment the sentences:

  #set WorkArea “/ihepbatch/bes/maqm/workarea”

  #path_remove CMTPATH “${WorkArea}”

  #path_prepend CMTPATH “${WorkArea}”

  And modify “/ihepbatch/bes/maqm/workarea “ into “/afs/ihep.ac.cn/users/m/maxn/workarea”

Run A Simple Example

- Copy TestRelease to local workarea

  $ cp -rf $BesArea/TestRelease ./
- Config and compile

  $ cd ~/workarea/Testrelease/*/cmt

  $ cmt broadcast cmt config

  $ cmt broadcast gmake

  $ source setup.csh

  $ cd ../run
- Run a job

  $ boss.exe jobOptions_sim.txt (for simulation)

  $ boss.exe jobOptions_rec.txt (for reconstruction)

  $ boss.exe jobOptions_ana_rhopi.txt (for analysis)

Run The Rhopi Example

- Physics Processess $J/\Psi \to \rho\pi^0, \rho \to \pi^+\pi^-, \pi^0 \to \gamma\gamma$
- Copy the RhopiAlg package

  $ cd ~/workarea

  $ cp -rf $BesArea/Analysis/Physics/RhopiAlg/ ./
- Compile

  $ cd RhopiAlg/*/cmt

  $ gmake

  $ source setup.csh
- Run(test)

  $ cd ~/workarea/TestRelease/*/run

  $ boss.exe jobOption_sim.txt

  (simulation, rhopi.dec required, and rhopi.rtraw produced)

  $ boss.exe jobOption_rec.txt

  (reconstruction, rhopi.rtraw required, and rhopi.dst produced)

  $ boss.exe jobOption_ana_rhopi.txt

  (analysis, rhopi.dst required, and rhopi_ana.root produced)

Run The Rhopi Example With large Event Number

- If the test run succeeds, what to do next is to modify the jobOption_sim.txt jobOption_rec.txt jobOption_ana_rhopi.txt

  modify BesRndmGenSvc.RndmSeed to be 10000, and ApplicationMgr.EvtMax to be 5000;
- Run the example

  first, do

  $ boss -q jobOption_sim.txt

  after it's done, do

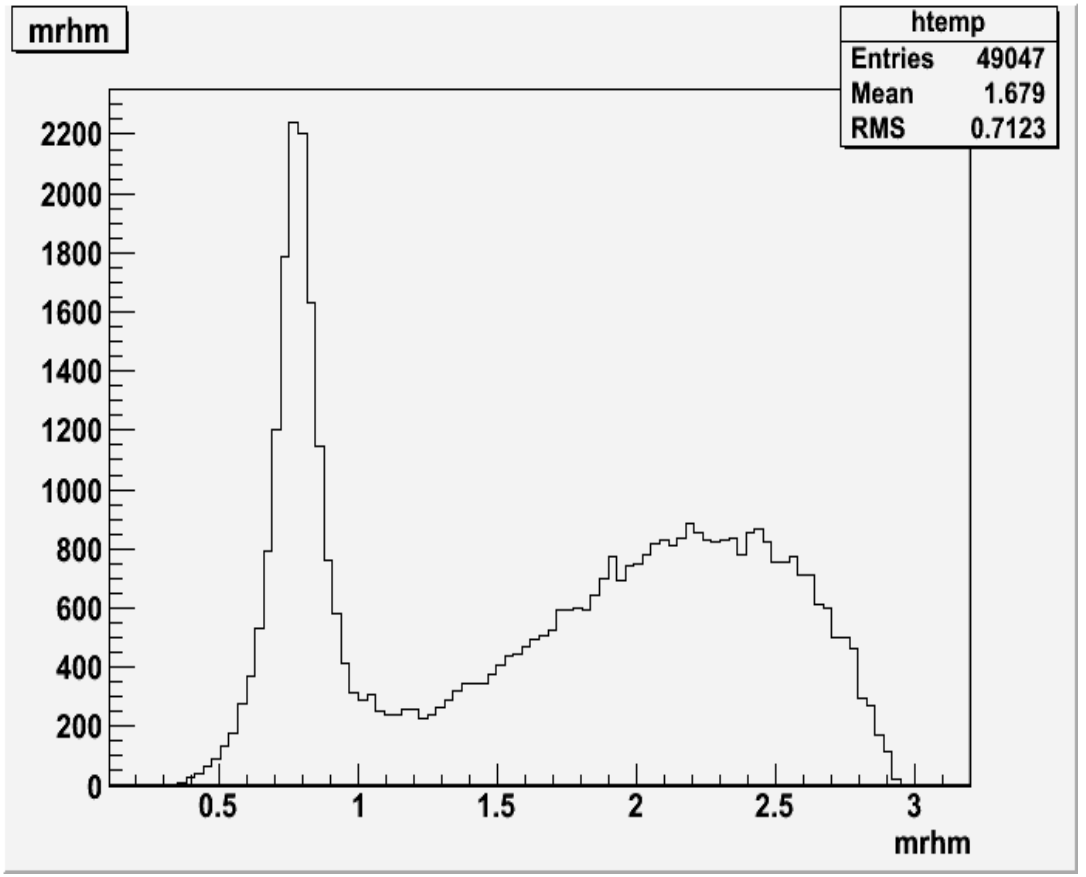
  $ boss -q jobOption_rec.txt

  after it's done, do

  $ boss -q jobOption_rec.txt

Analysis

- When the analysis algorithm is done, ana_rhopi.root is produced, then do
- $ root -l ana_rhopi.root
- Then analysis using ROOT
- root[ ] Tbrowser a
- root[ ] fit5c->Draw(“mrhm”)



What I am doing

- Modify Rhopi.cxx to analysis the process
- Main parameters to be concentrated on:

  nGood, nGam, Vertexfit, KinematicFit, …
- Modify the decay card
- Run the process and analyze it

```
#J/psi-> omega pi+ pi+ pi- pi-
#          |-> pi- pi+ pi0
#                       |-> gamma gamma
#
Decay J/psi
    1.0000 omega pi+ pi+ pi- pi- PHSP;
Enddecay
#
Decay omega
    1.000 pi- pi+ pi0 OMEGA_DALITZ;
Enddecay
#
Decay pi0
    1.000 gamma gamma PHSP;
Enddecay
#
End
```

Thank you