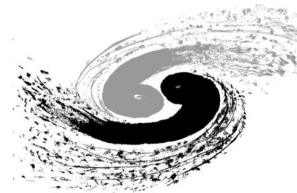
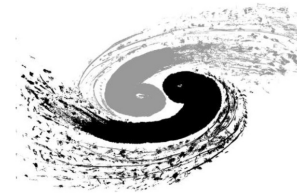


# **CEPC Analysis Tutorial (Part2)**

Zebing Wang



# Analysis codes

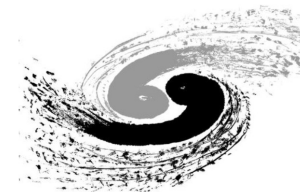


- Analysis codes: /publicfs/cms/user/wangzebing/CEPC/CEPCSW\_tdr24.9.1/CEPCSW/Analysis/GenMatch
- Input dataset:  
/publicfs/cms/user/wangzebing/CEPC/CEPCSW\_tdr24.9.1/CEPCSW/FullSim\_samples/Rec\_TDR\_o1\_v01\_E240\_nnh\_gg.root
- Configuration file: jcls\_genmatch.py
- Source file: src/GenMatch.cpp
- Output file: single tree root file that analyzable
- Copy the codes into your CEPCSW working area
- Compile the CEPCSW
- ./run.sh jcls\_genmatch.py

```
from Configurables import GenMatch
genmatch = GenMatch("GenMatch")
genmatch.nJets = 2
genmatch.R = 0.6
genmatch.OutputFile = "./RecJets_TDR_o1_v01_E240_nnh_gg.root"
```

```
from Configurables import ApplicationMgr
ApplicationMgr(
    TopAlg=[inp, genmatch ],
    EvtSel="NONE",
    EvtMax=3,
    ExtSvc=[podioevent],
    #OutputLevel=DEBUG
)
```

# Source File



- GenMatch.cpp
  - L 166-178: get GEN particle collection
  - L 192: get all the reco particles for the reco jet reconstruction
  - L 200-325: separate reco PFO into muons/charged particles/neutral particles
  - L 336-344: ee\_kt\_algorithm for reco jet reconstruction
  - L 411-466: GEN particle classification
  - L 481-489: ee\_kt\_algorithm for GEN jet reconstruction
  - L 500-525: Jet GEN match

**谢谢**

