

CEPC Group Meeting

LICH Sample production

16/07/2018

Aim

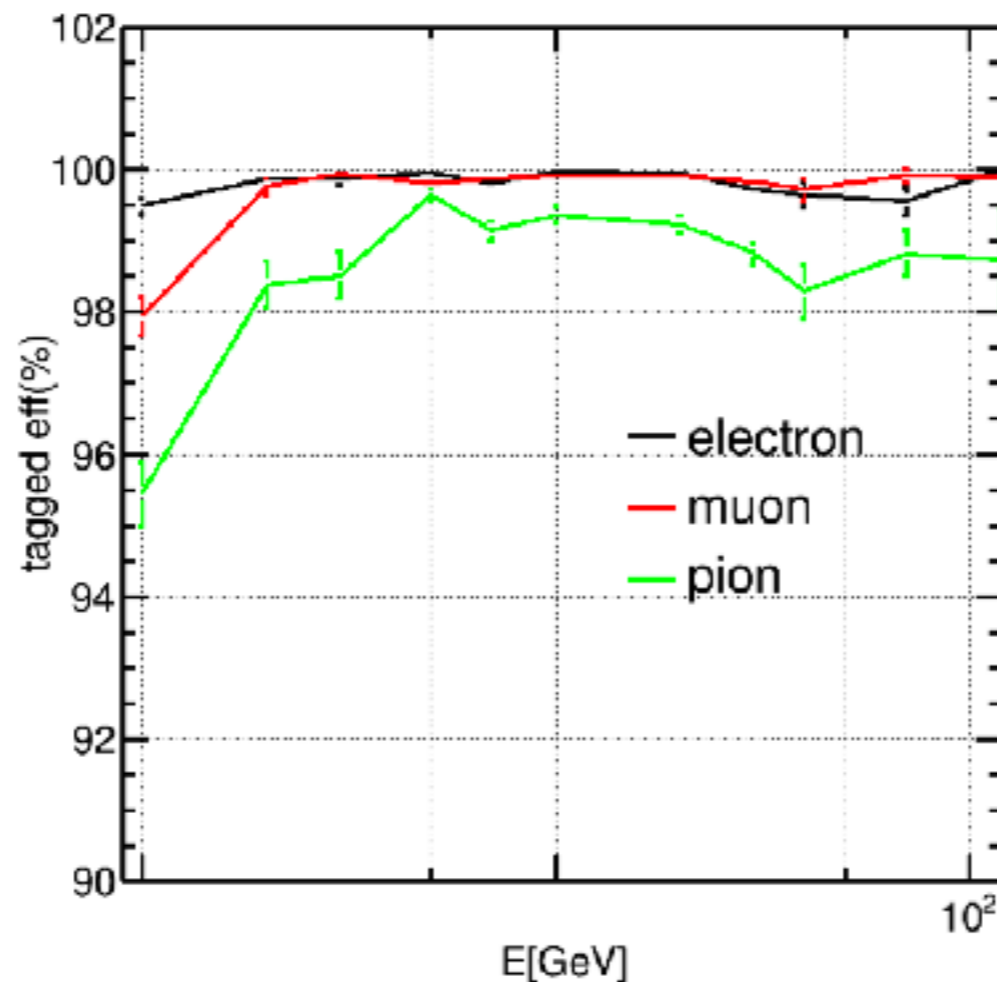
- ArborPFOs->rename AncientPFOs
- LICHPFOs->ArborPFOs

Processor

- Environment:
 - [/afs/ihep.ac.cn/users/y/yudan/yudan/Arbor_v3.3/ArborGeneralLICH/env.sh](#) (v1)
 - [/afs/ihep.ac.cn/users/y/yudan/yudan/Arbor_v3.3/ArborMag/env.sh](#) (v4)
- Steering file:
 - [/afs/ihep.ac.cn/users/y/yudan/yudan/pidgit/Marlin-PID-processor/reco_v1.xml](#)(reco_v4.xml)
 - reconstruction (Not reconstructed samples)
 - [/afs/ihep.ac.cn/users/y/yudan/yudan/pidgit/Marlin-PID-processor/pid_v1.xml](#)(pid_v4.xml)
 - run LICH and rename ArborPFOs
 - [/afs/ihep.ac.cn/users/y/yudan/yudan/pidgit/Marlin-PID-processor/rename.xml](#)
 - rename LICHPFO

LICH Performance

- Single Particle



- $\text{mmH eff} = N_{\text{trk}}(\text{tagged initial muon} > 20 \text{ GeV}) / N(\text{initial muon} > 20 \text{ GeV})$
- 240 GeV mmH eff: 98.25%