

Development of 2km MC

Processes

1) Generated Vector :

R<300cm(without any cut on Z) 88,618 events

2) Detsim

3) pfit -> afit

4) rngcnt -> PID -> MSfit -> rngcorr -> finalsep

(caution::potot>500 p.e., dwall > 100)

5) polfit

Event Summary

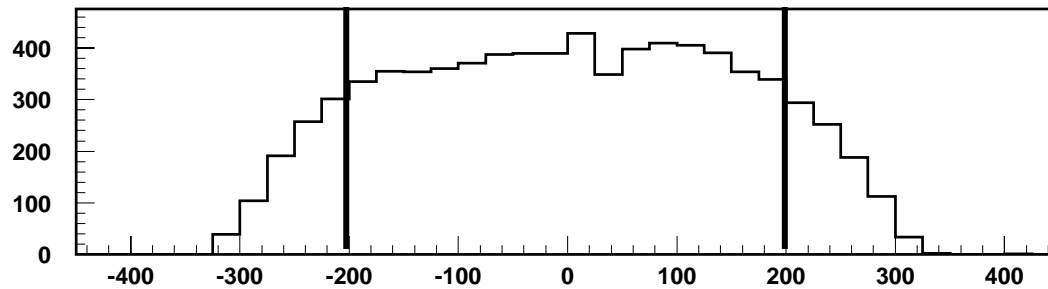
Generated: 88,618 events
Fiducial cut : 6,763 (R < 200 cm, -200 < Z < 0 cm)
FC : 5,095 (pomax20deg < 200 p.e.)
FC1R : 3,783
FC1Rmu: 3,591
FC1Re: 192
pi0like: 118
PC : 1,668

FC:PC = 0.75:0.25

FC1R:FCmR = 0.74:0.26

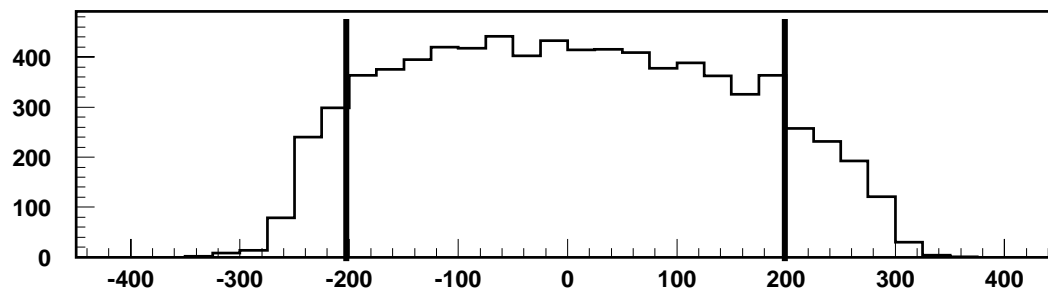
FC1Rmu:FC1Re = 0.95:0.05

FC1Repi0:other = 0.61:0.39



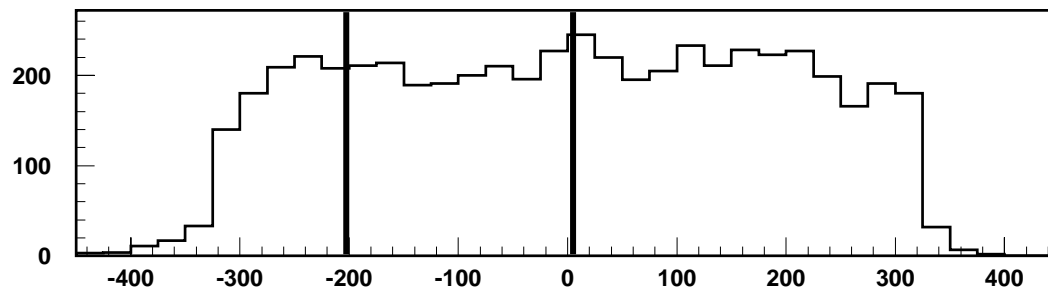
X (-10 :Z)

X



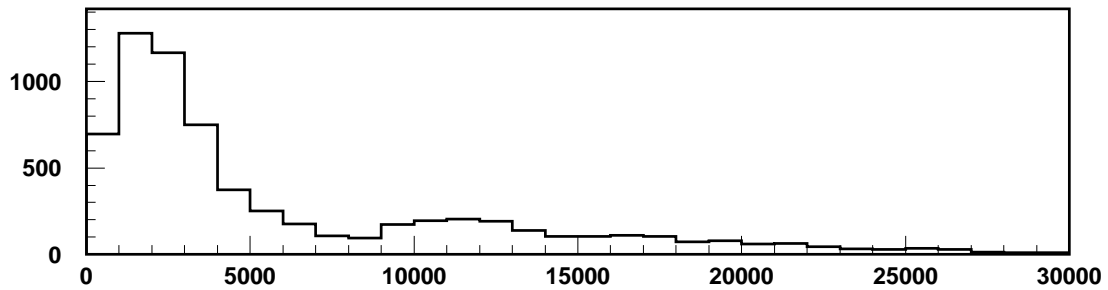
Y (-10 :Z)

Y



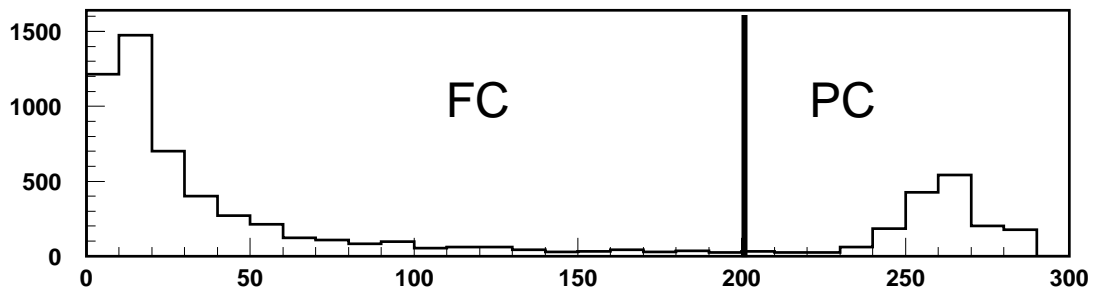
Z (R 1m)

Z



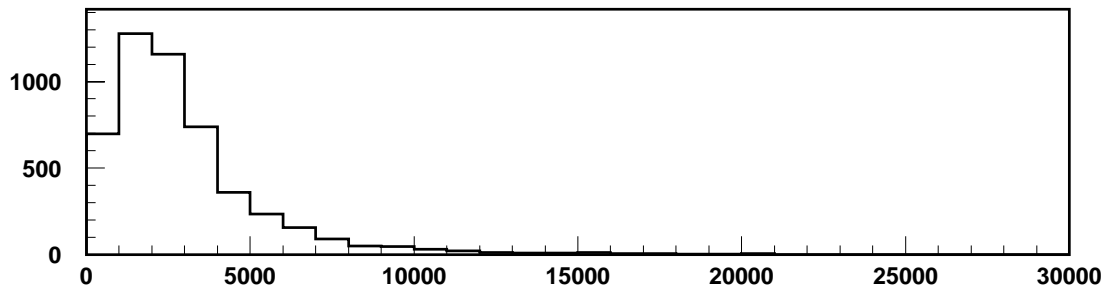
Potot

potot (25t)



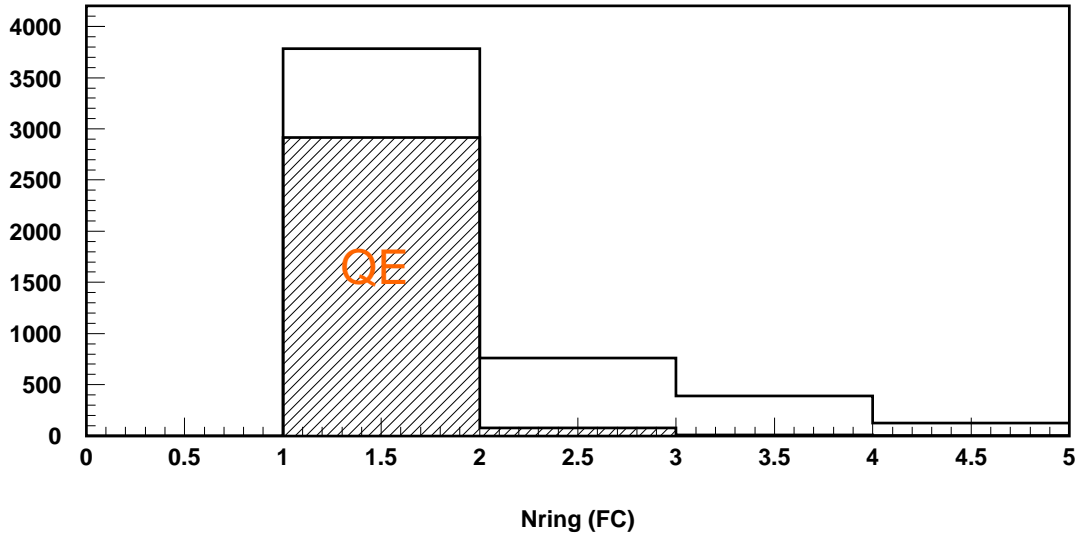
Pomax20deg

Qmax

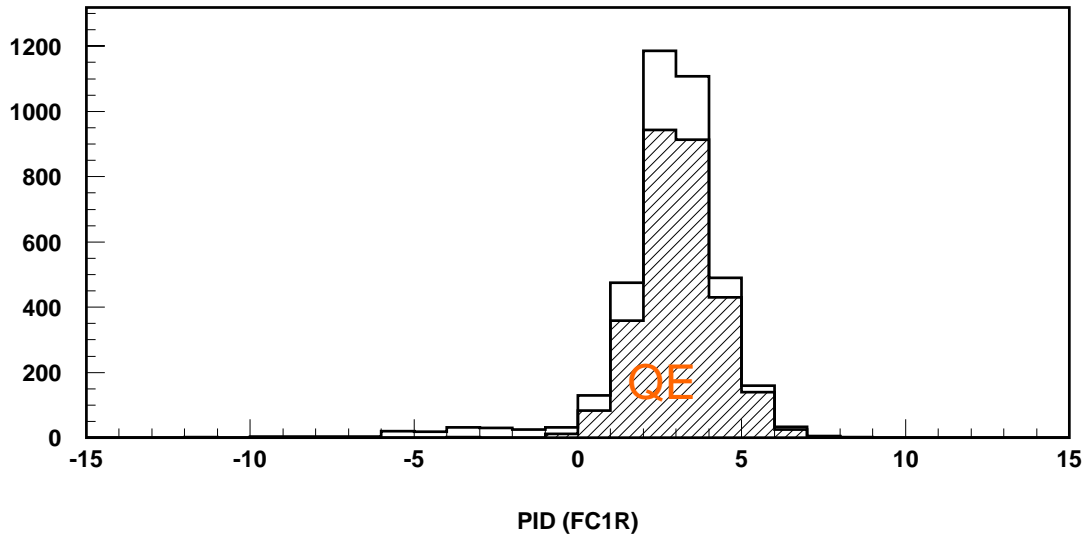


Potot(FC only)

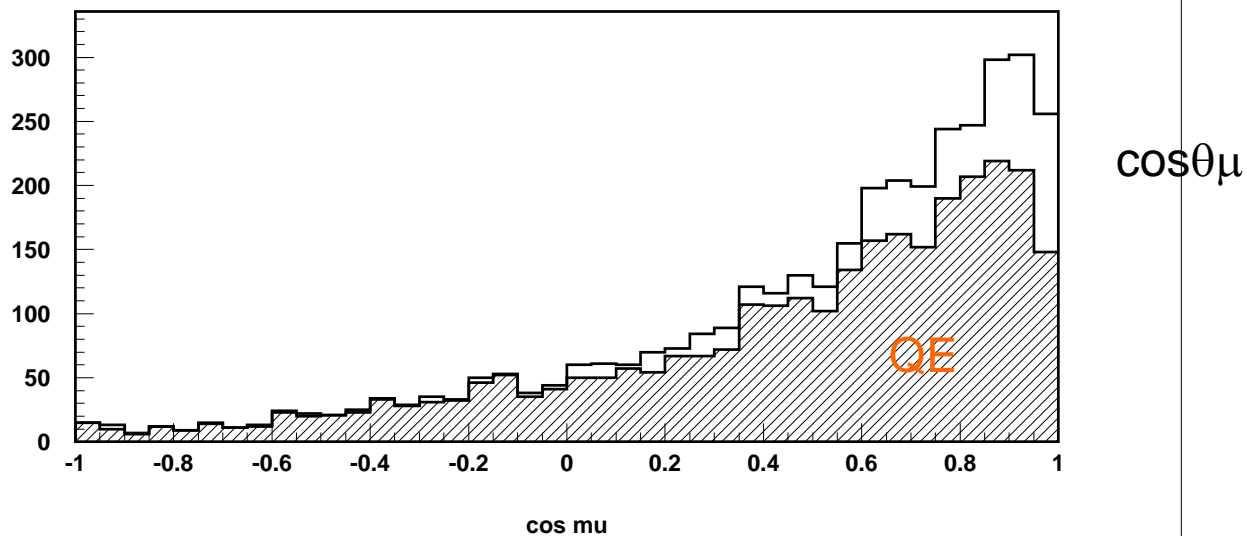
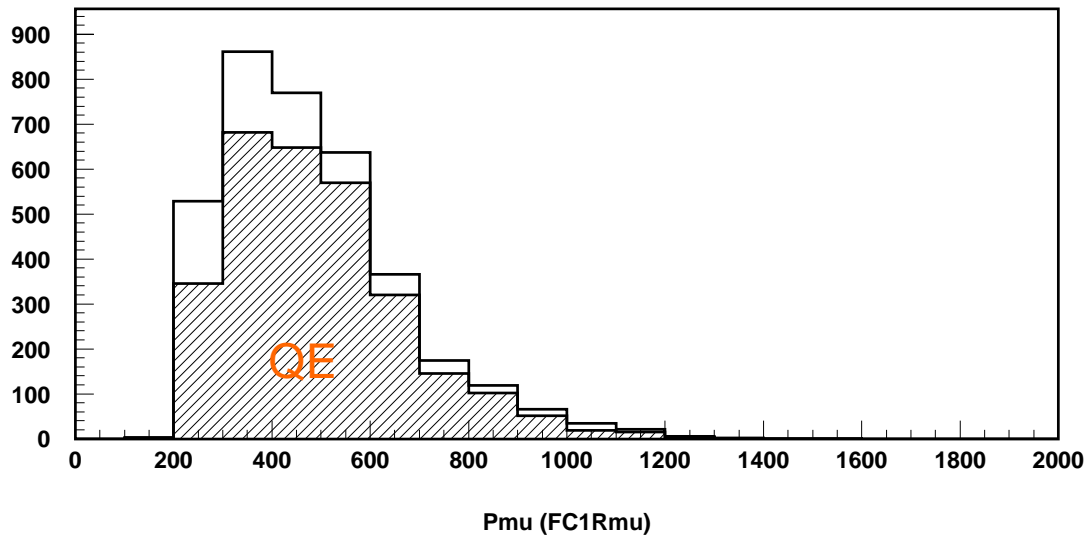
potot (25tFC)

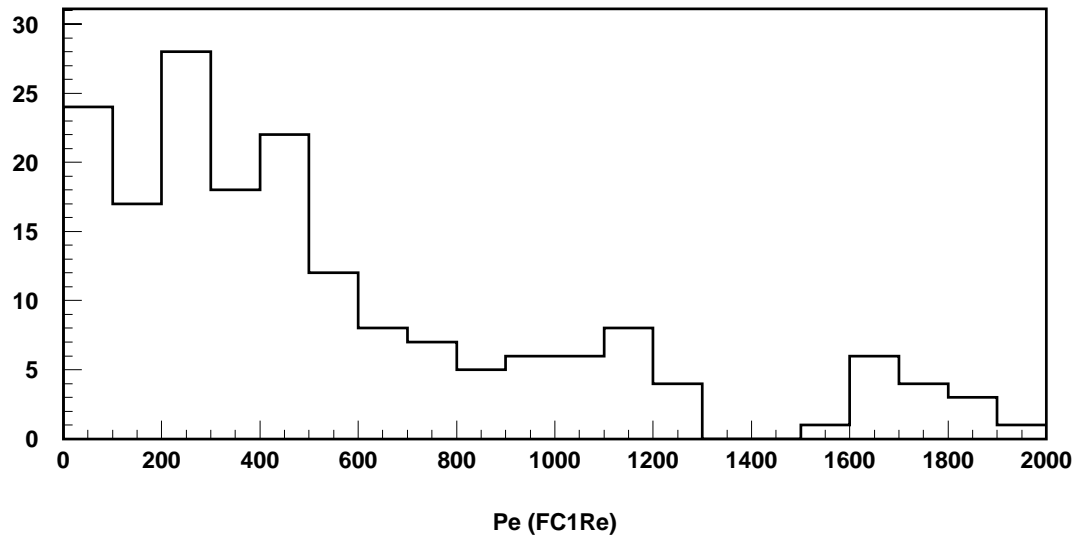


Nring

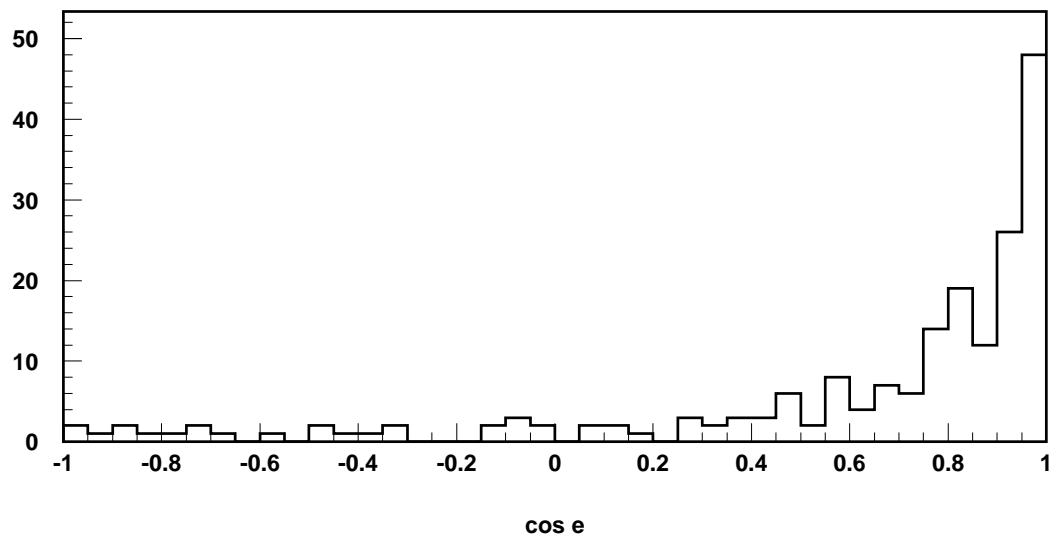


PID

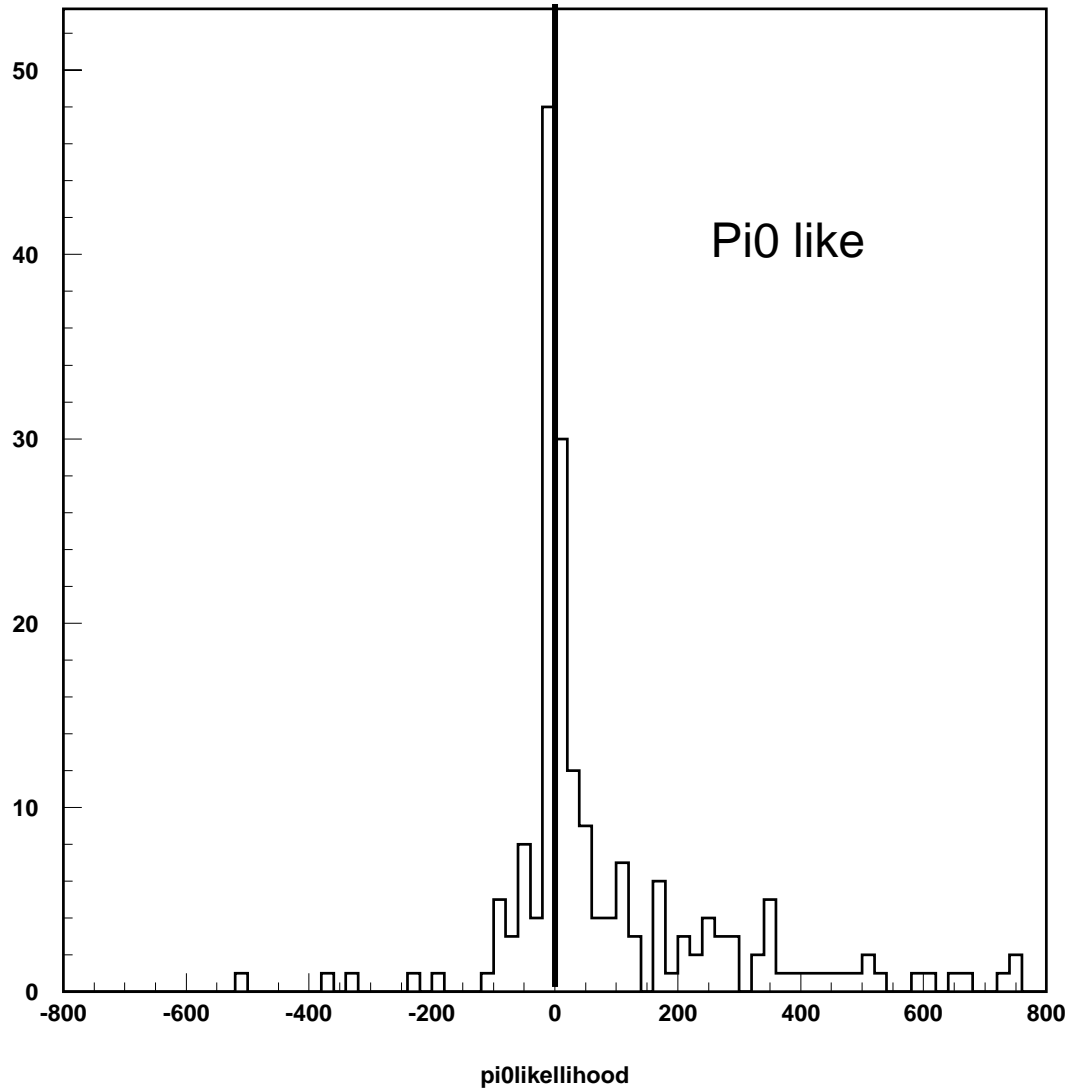




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Plan

We need more event!

- Generate MC 20 times more.
- Generation + process ~ 1day/ 90k event @Kashiwa Linacs
- Finish within September (?)