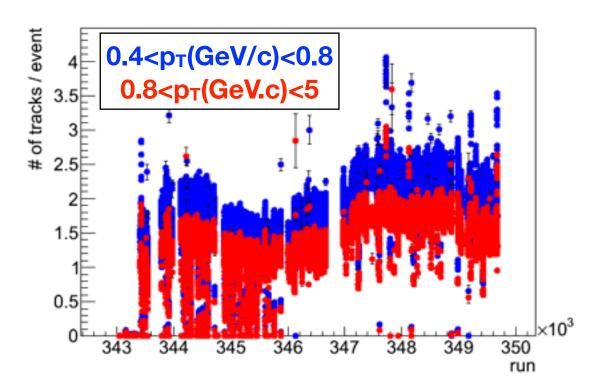
CNT QA

2012/06/14 RIKEN VTX software meeting Ryohji Akimoto

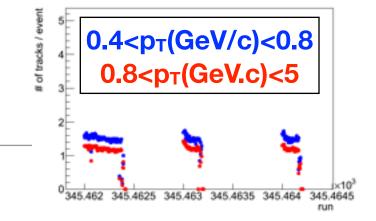
Introduction

- I checked track multiplicity as a function of run number.
 - use SvxCntQA files
- Track selection
 - cut for event selection
 - ✓ BBC charge > 50
 - ✓ |BBC z-vertex| < 8cm</p>
 - cut for CNT
 - √track quality : 31 or 63
 - √ |zed| < 75
 - cut for VXT
 - √chi2/ndf<10
 - √nhit>2
 - √require B0 hit



Run QA

• Run QA plan



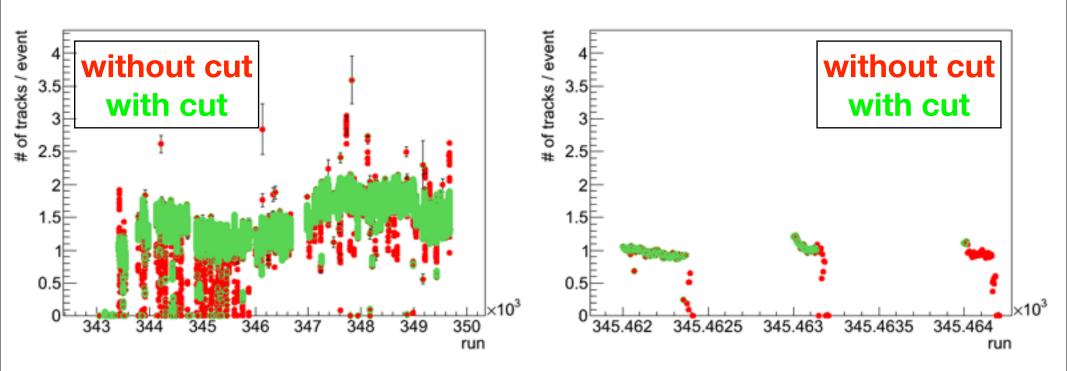
- categorize some run groups, then cut runs where mean track multiplicities are far from the mean track multiplicity of the run group.
- But, track multiplicities suddenly increase or decrease in some runs.
 - cell ID stuck problem, suddenly increase hot channels, ...
- Events after the change should be cut before calculating mean track multiplicity of the run.
 - They will be able to be cut by other QA (cell ID and # of clusters).
 - I also tried to cut them from track multiplicity of a file segment.

Segment QA

- I tried to cut events after increasing or decreasing the track multiplicity suddenly from track multiplicity of a file segment.
- How to cut
 - start from the first file segment and check with next 4 file segments.
 - select 3 segments among 4 and make 4 combinations of 3 segments.
 - calculate standard deviation for each of the combinations and search minimum among 4 combinations. Cut is applied to the minimum.

√threshold : 0.05

Result (0.8 < pT(GeV/c) < 5)



minimum RMS

