pAu200_2015

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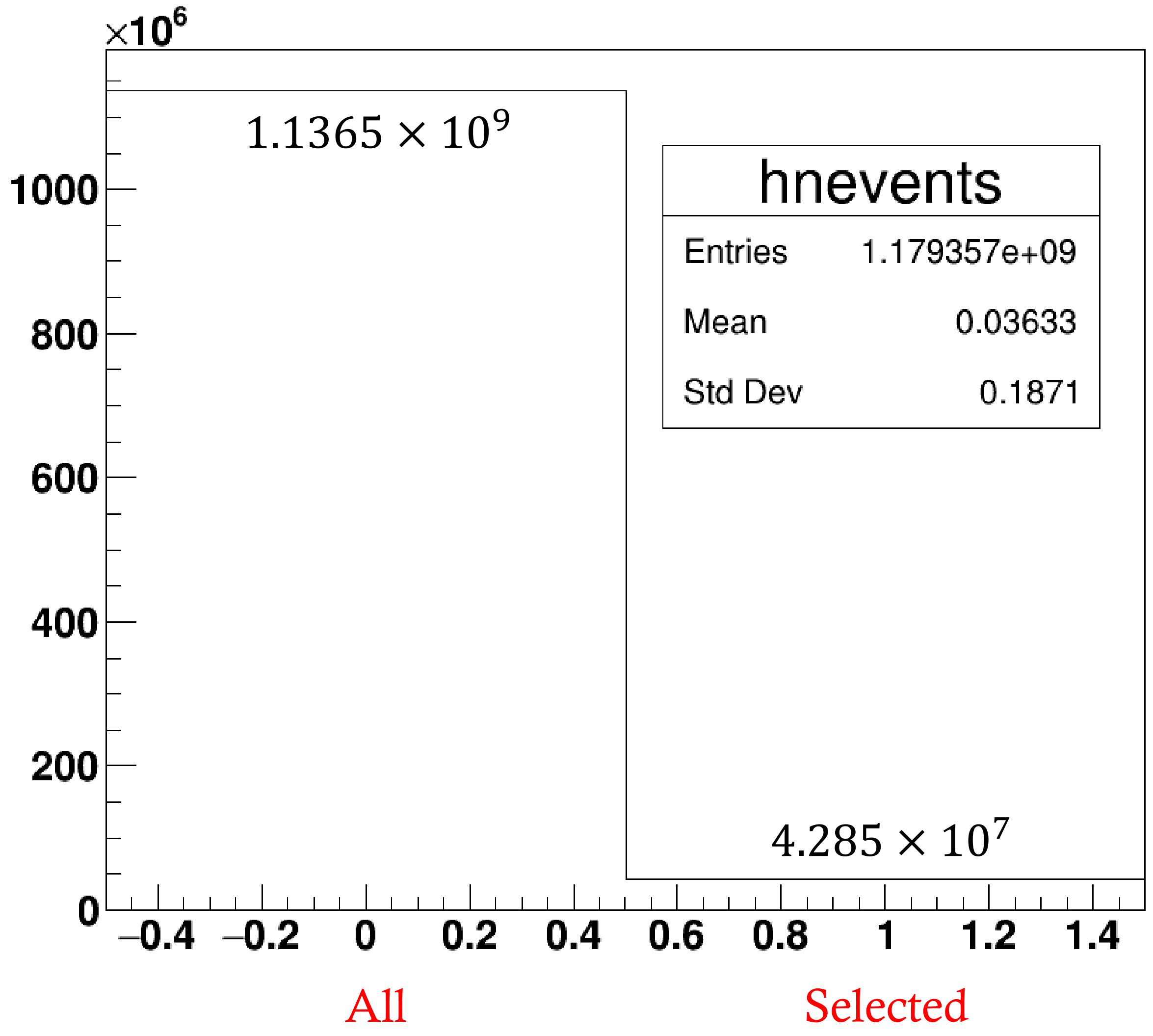
QA

Dataset

- Dataset: st_physics,trgsetupname=production_pAu200_2015,production=P16id
- Lib:SL20a
- Trigger:VPDMB-30(500904)

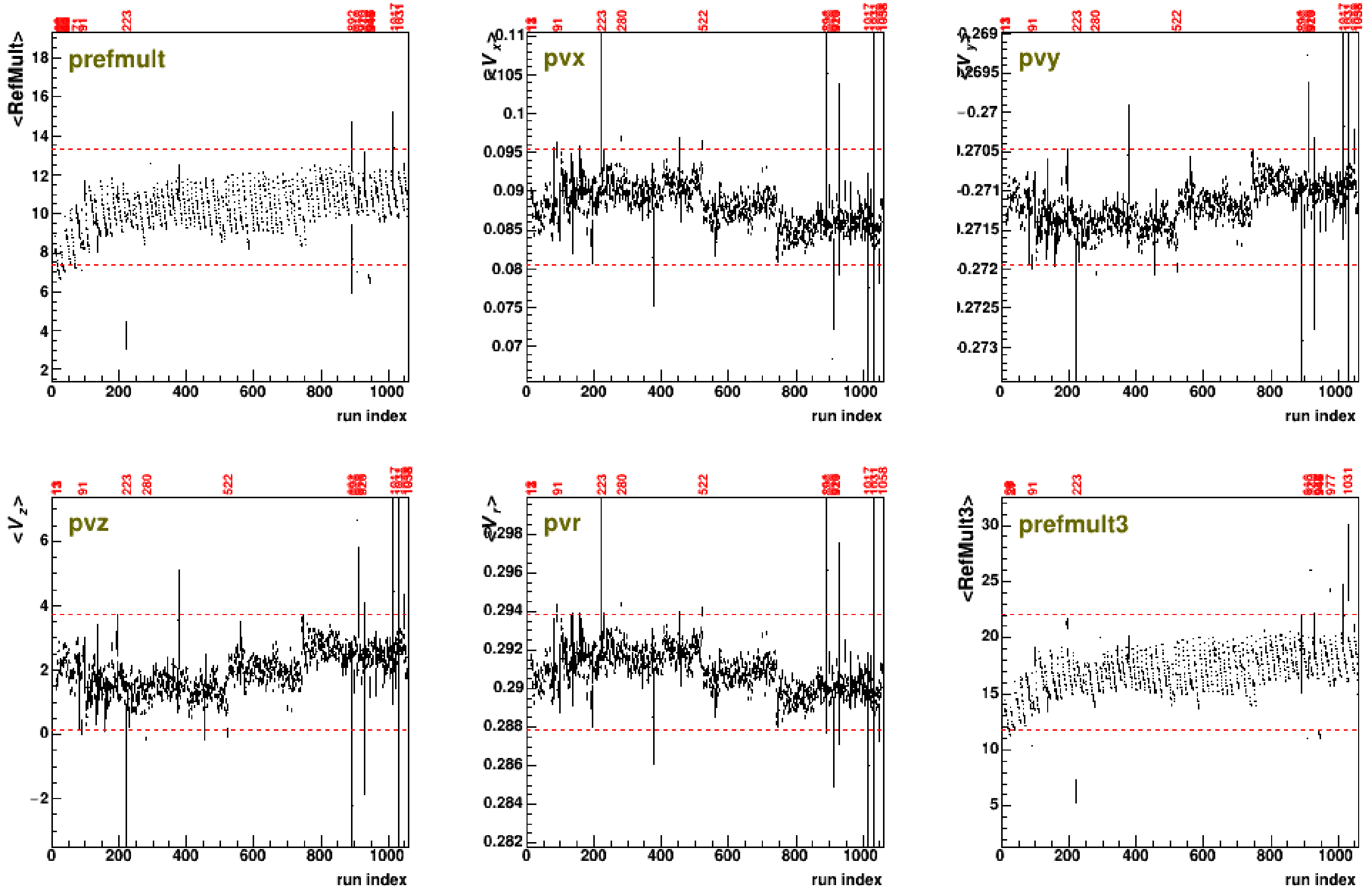
- Event Selection
  - $-30 < V_z < 30$
- Primary Track Selection
  - p_T: $0.2 \sim 20\ GeV/c$
  - $dca < 3\ cm$
  - $nHitsFit \geq 20$
  - $\frac{nHitsFit}{nHitsPoss} \geq 0.52$
  - $-1 < \eta < 1$

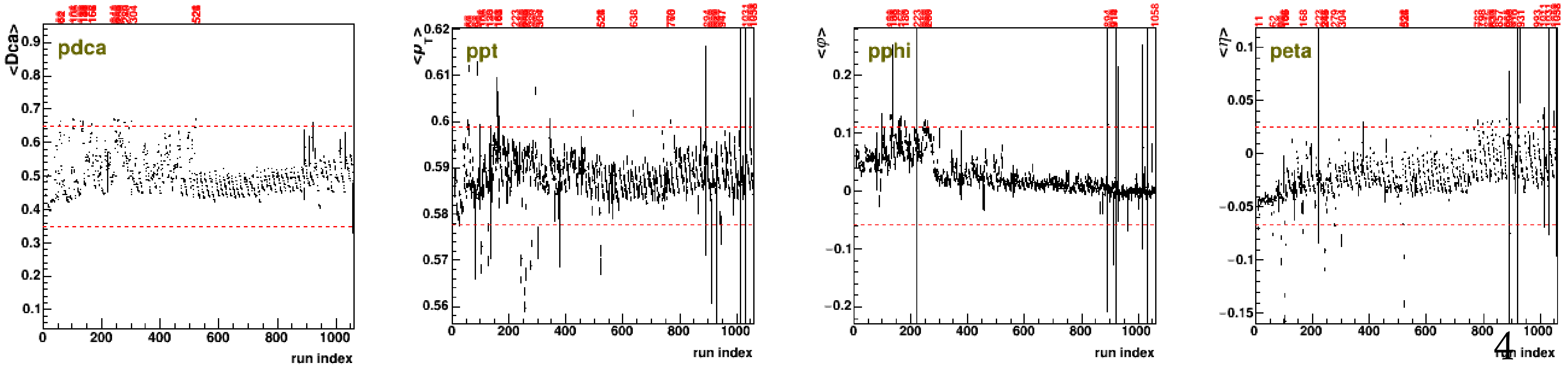


QA

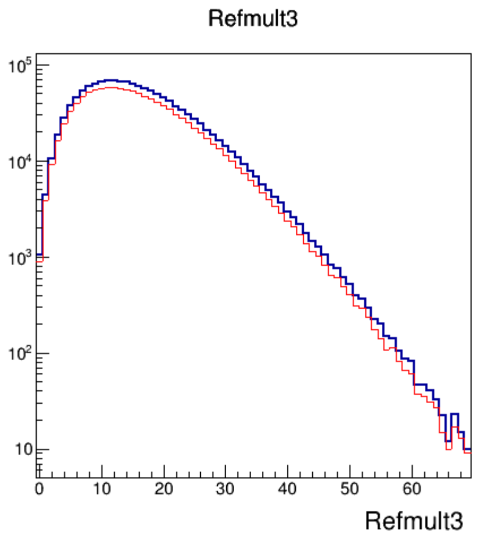
- Runs outside 3 *RMS* of the distribution rejected until no bad runs remain.
- Total 92 bad runs:

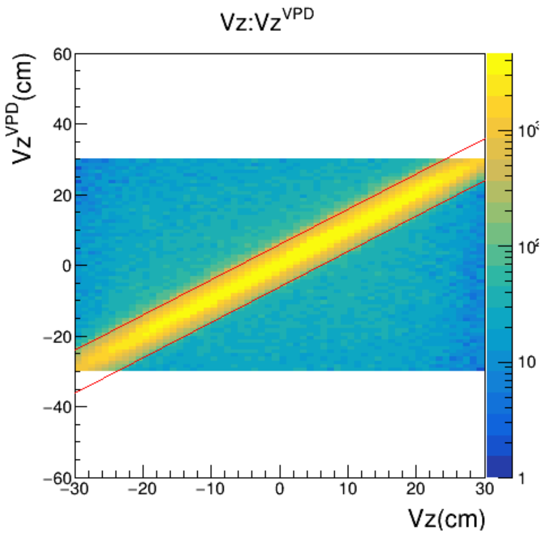
16125038, 16125039, 16125042, 16125054, 16125056, 16125057, 16125058, 16125060, 16125061, 16125062, 16125063, 16126006, 16126012, 16126013, 16126014, 16126015, 16126016, 16126017, 16126018, 16126030, 16126051, 16126052, 16127006, 16127008, 16127017, 16127028, 16127049, 16127052, 16128010, 16128011, 16128012, 16128014, 16128048, 16128049, 16128050, 16128056, 16128057, 16129013, 16129016, 16129018, 16129023, 16129025, 16129029, 16129044, 16131028, 16132002, 16132003, 16132021, 16132022, 16132024, 16132030, 16132047, 16132048, 16132049, 16132050, 16133086, 16133087, 16134013, 16134043, 16141038, 16141040, 16141049, 16144070, 16150004, 16150011, 16150044, 16150066, 16151042, 16152008, 16152021, 16153009, 16154004, 16154011, 16154022, 16155001, 16155018, 16155032, 16155041, 16156011, 16156030, 16156031, 16156032, 16156033, 16156034, 16156043, 16157035, 16157062, 16158016, 16158022, 16158042, 16159010, 16159020

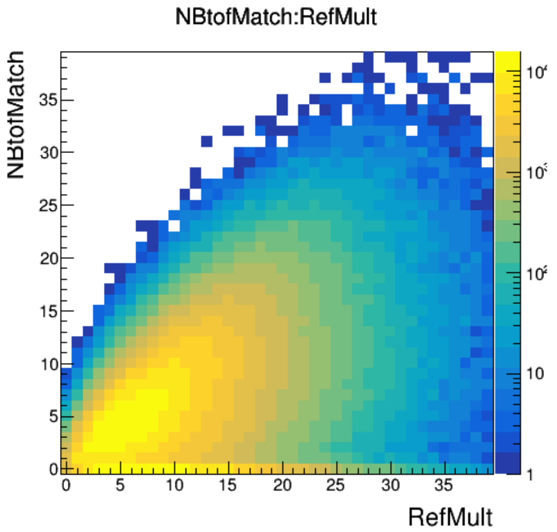


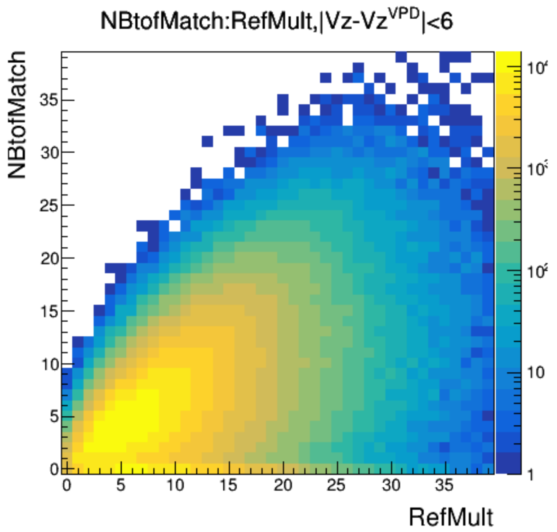


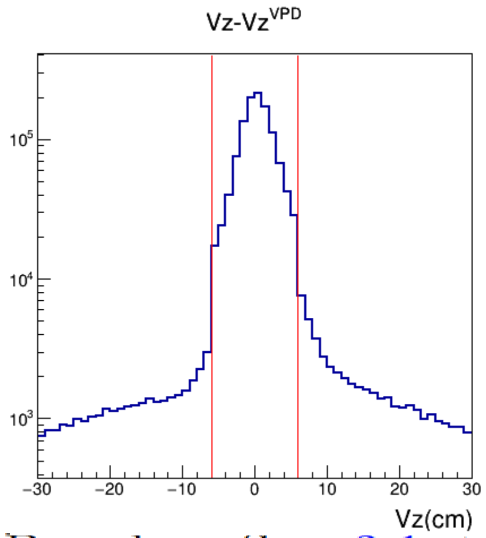
Plieup(30 runs used)

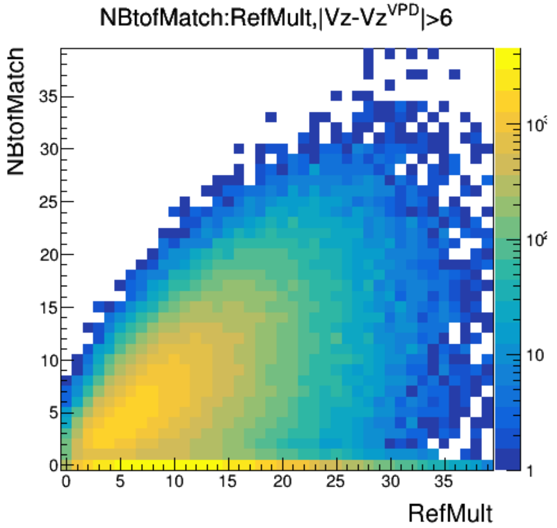










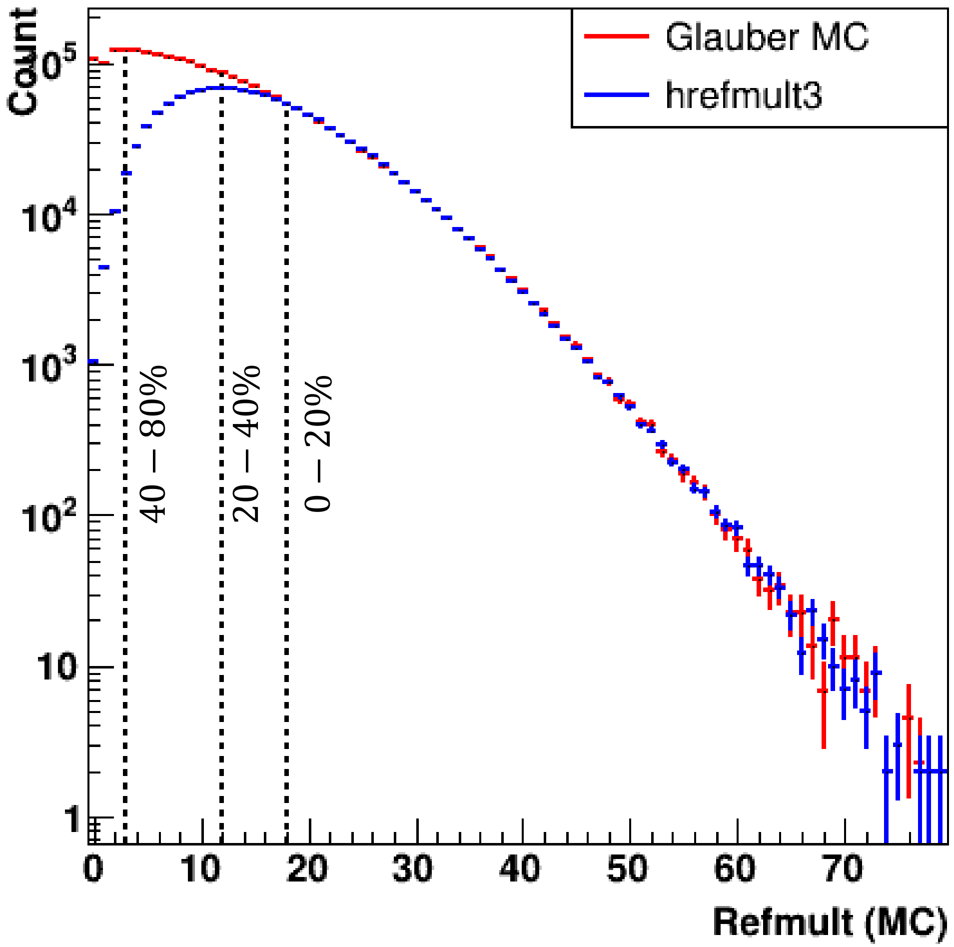


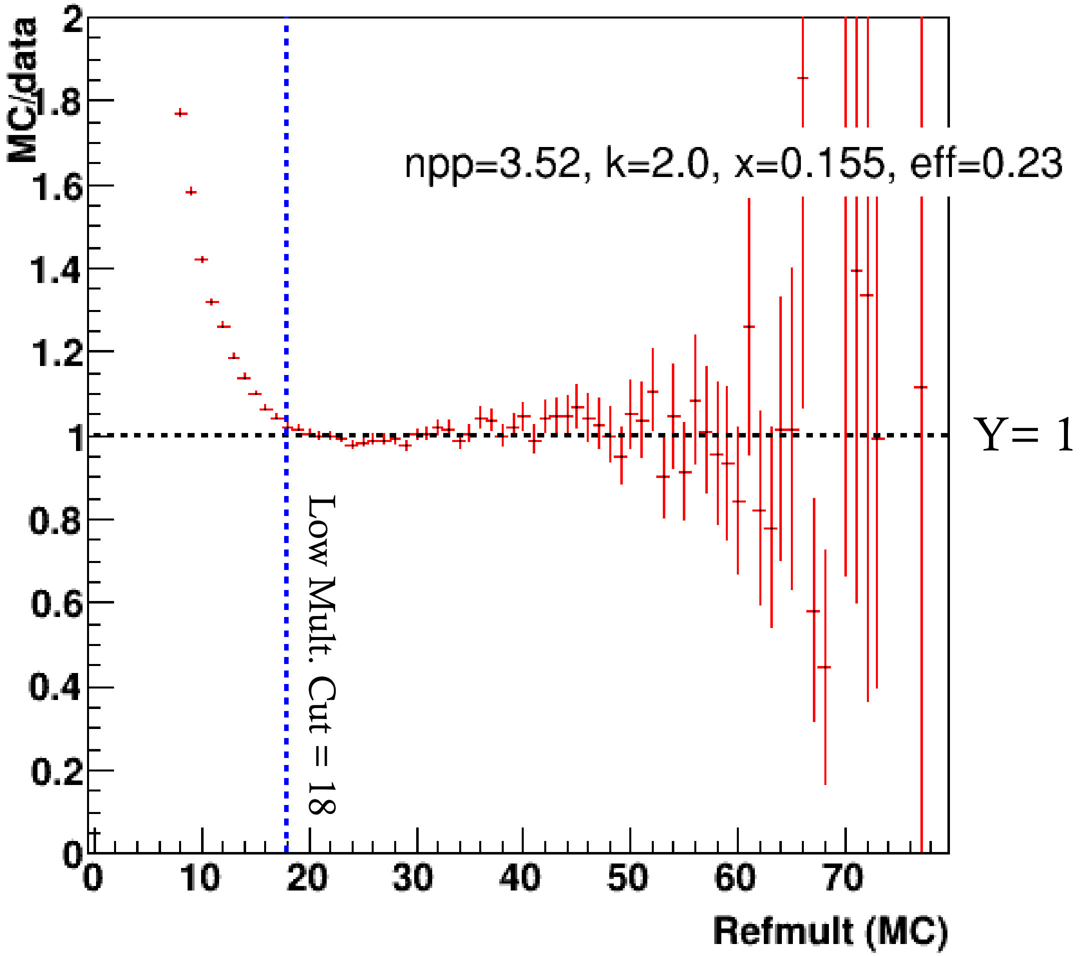
Risa Nishitani's note

Based on Sec. 2.1, to investigate the effects of pileup events, it is necessary to study several observables in terms of luminosity. In the STAR experiment, the coincidence rate of the ZDC is used as a proxy of luminosity. It is known that in Au+Au collisions the average multiplicity decreases with increasing

Centrality

Glauber MC





Cent.	0 – 20%	20 – 40%	40 – 80%
RefMult3	19-80	13-18	4-12

Raw Net-Proton(without corrected pid)