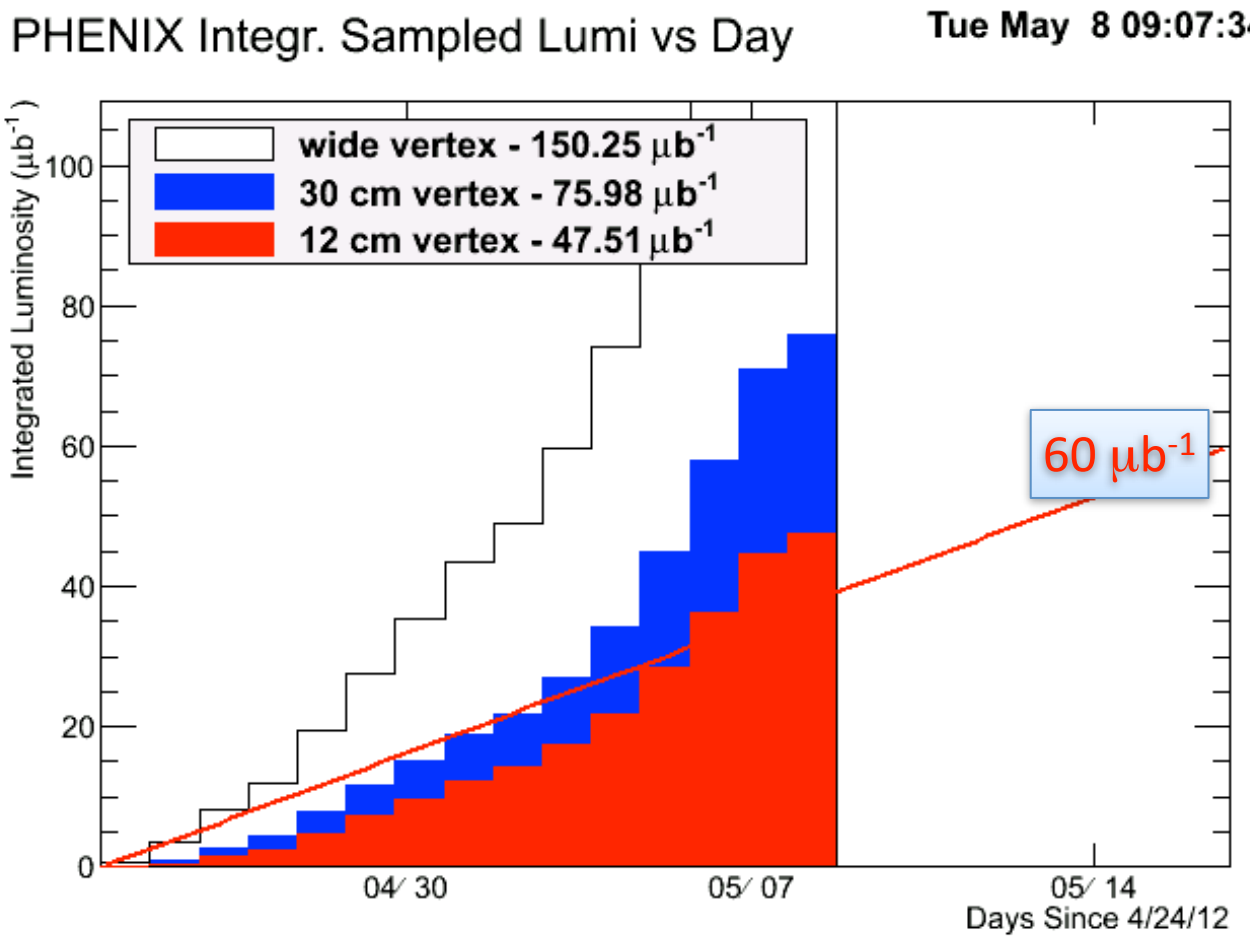
PHENIX U+U Run Status Report (5/15)

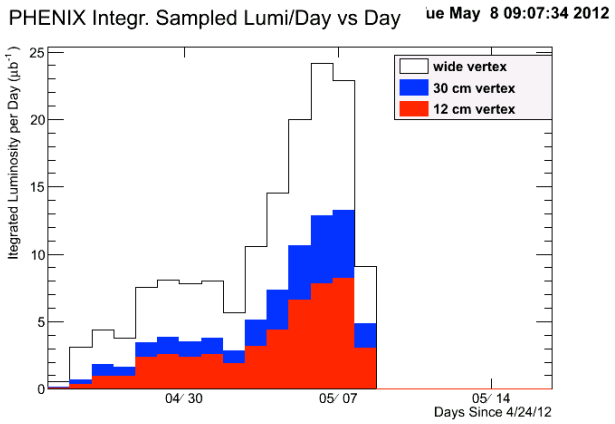
Xiaochun He

- The U+U run for PHENIX is extremely smooth and successful. We are far beyond the goal of the sampled integrated luminosity. See next slide for final numbers.
- We would like to express our sincerely thanks to Yun Luo and the entire C-AD staff for the fantastic job done running U+U collisions.
- PHENIX is currently having a maintenance access for removing broken wires in draft chambers in preparation for Cu+Au run.

Sampled Integrated Luminosity

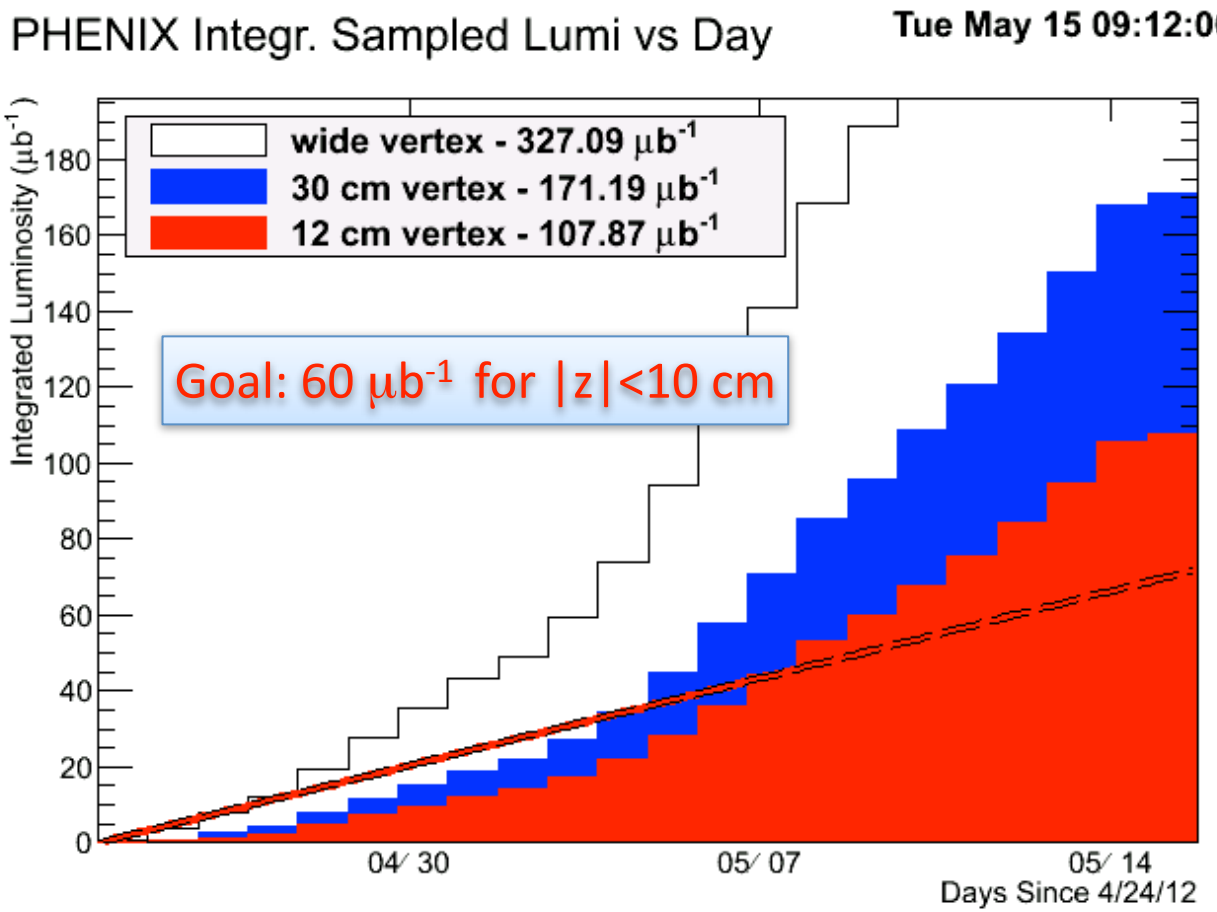


Daily Sample

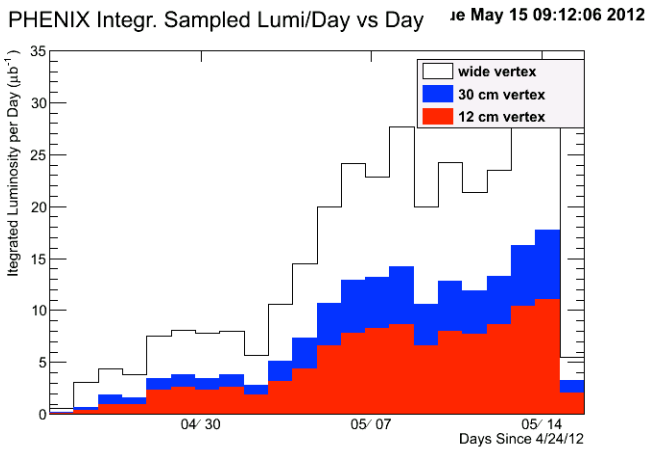


We had a great week!!!

Sampled Integrated Luminosity

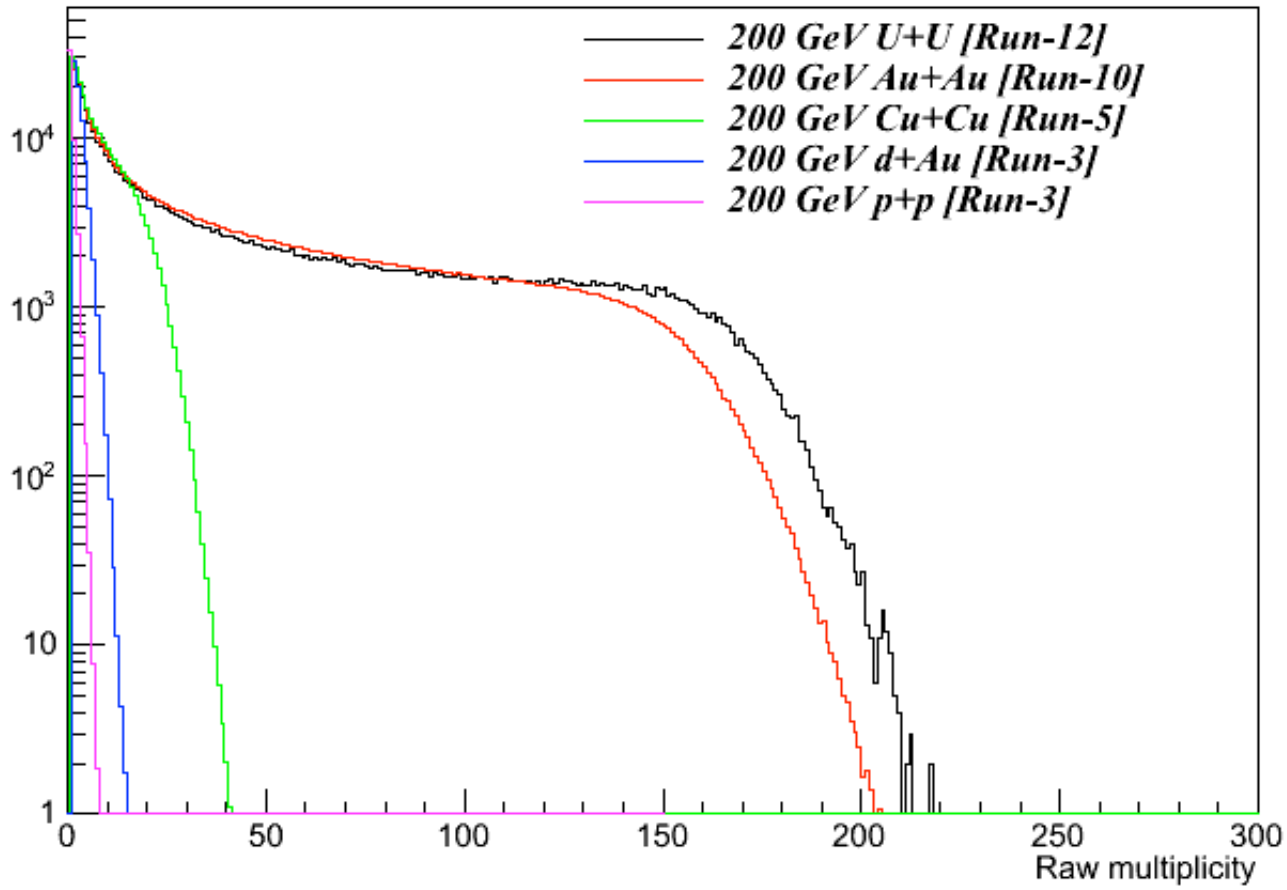


Daily Sample



We had a great U+U run!!!

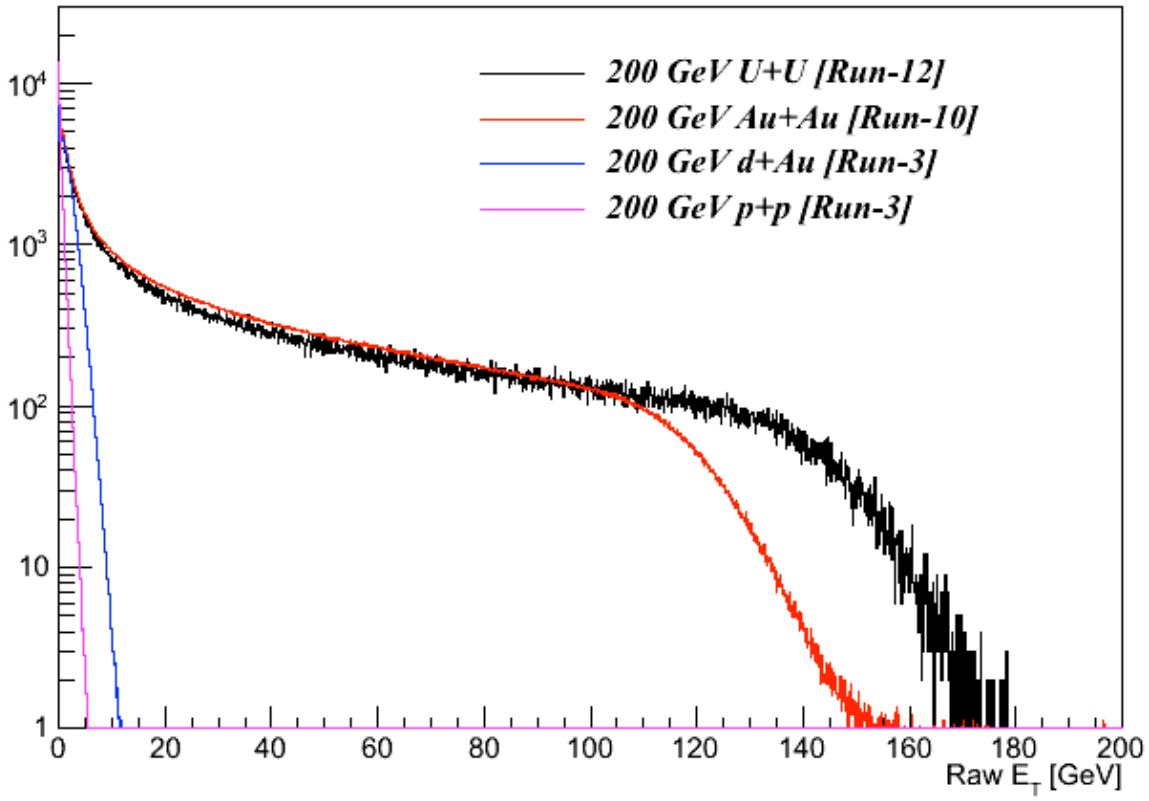
U+U Multiplicity



The turnover of the knee is ~13% higher in U+U than Au+Au. The mean is 12% higher.

These are all raw values. No corrections for acceptance, efficiency, etc. have been applied.

U+U Transverse Energy



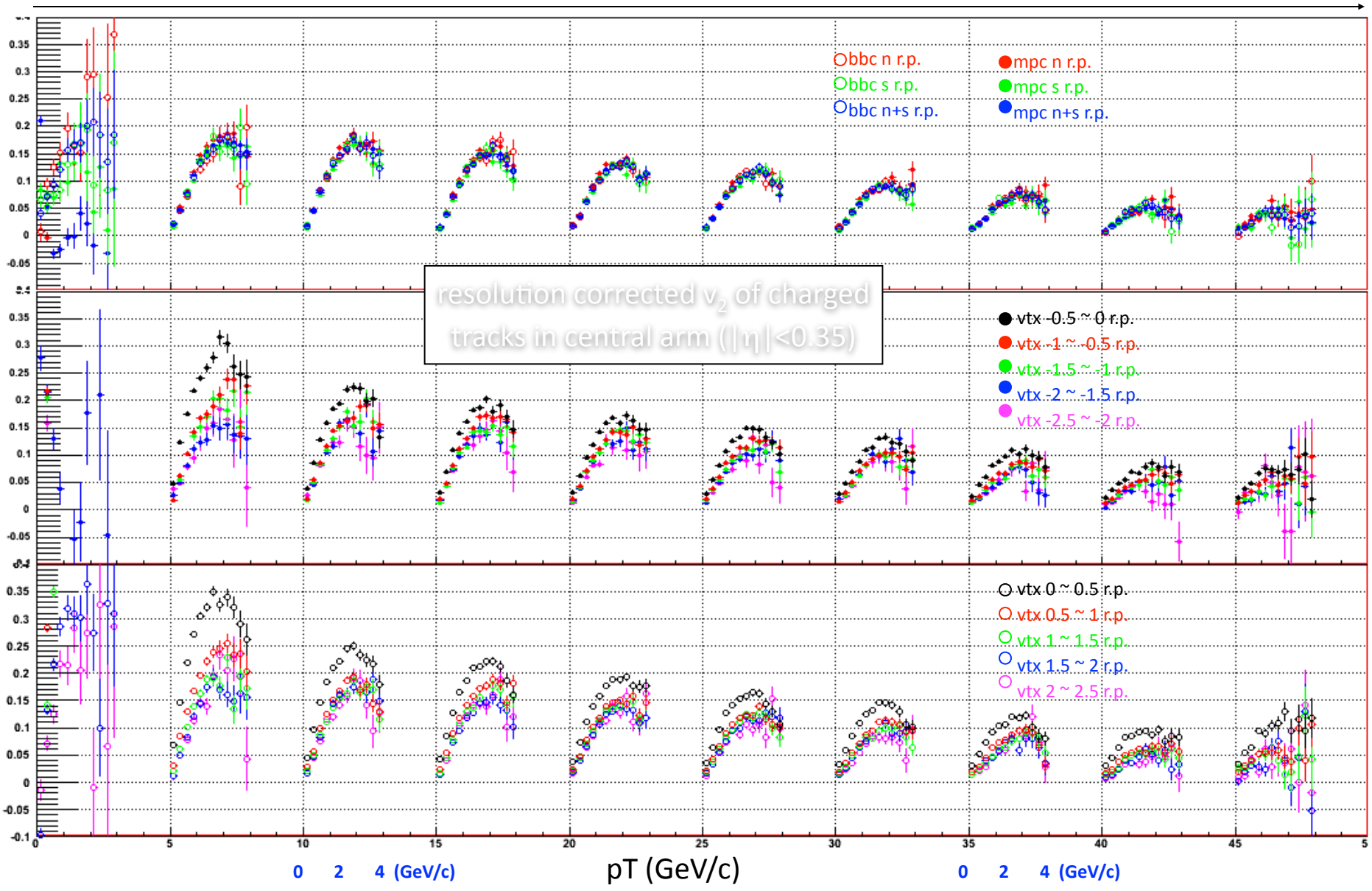
The turnover of the knee is ~21% higher in U+U than Au+Au. The mean is 14% higher.

This is consistent with recent AMPT calculations: M. Haque et al., PHYSICAL REVIEW C **85, 034905 (2012)**

These are all raw values. No corrections for acceptance, efficiency, etc. have been applied.

200GeV U+U (RUN12)

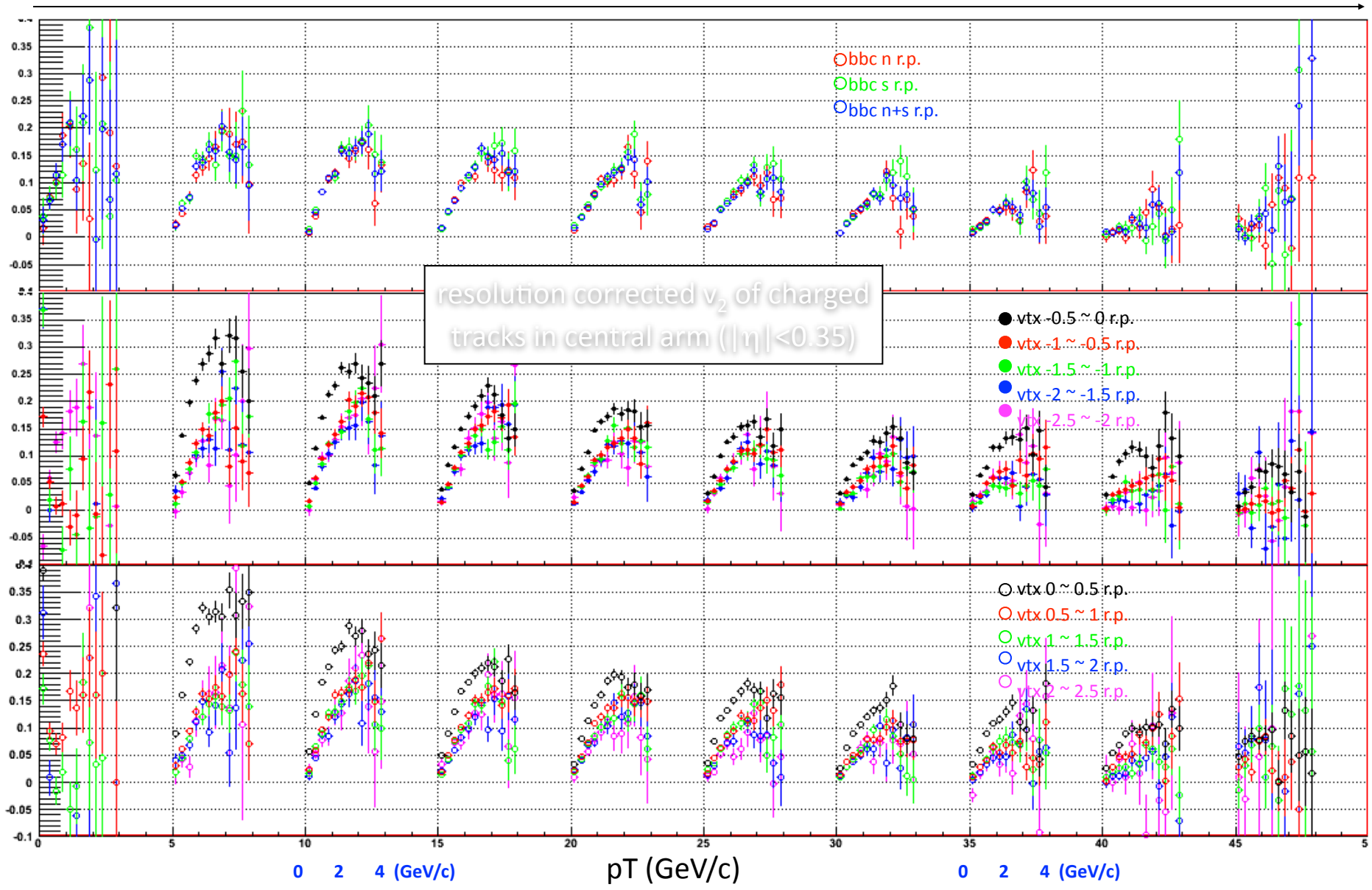
bbc charge sum (10 bins: 0~2600)



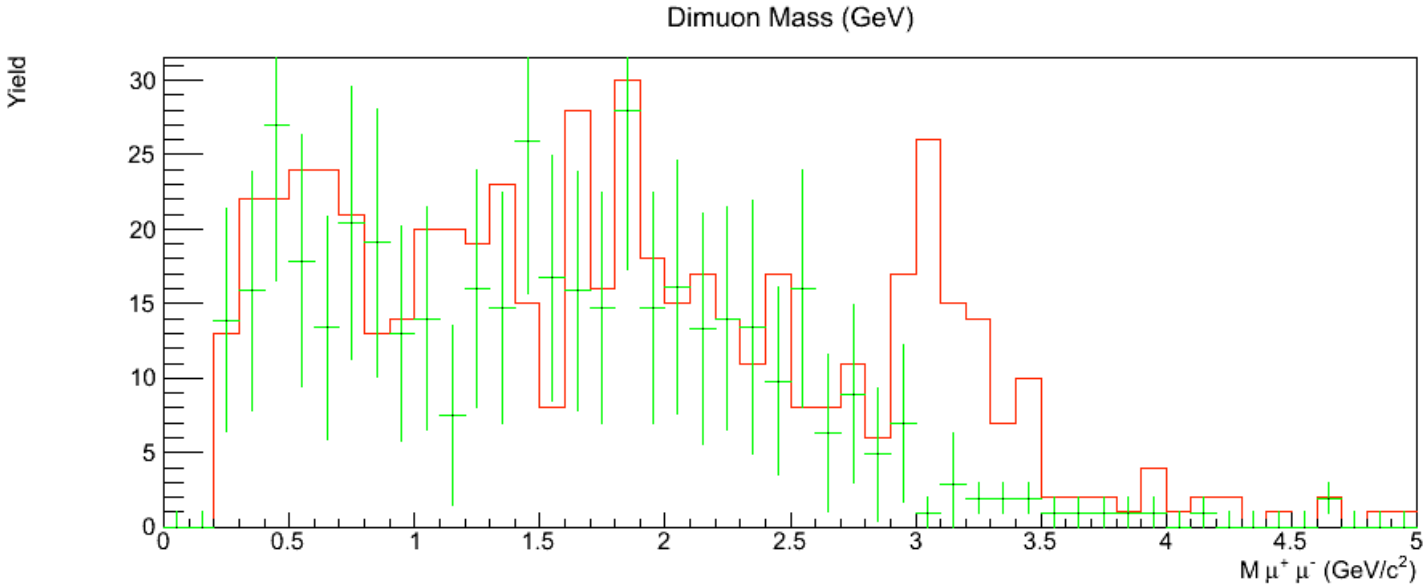
200GeV Au+Au (RUN11)

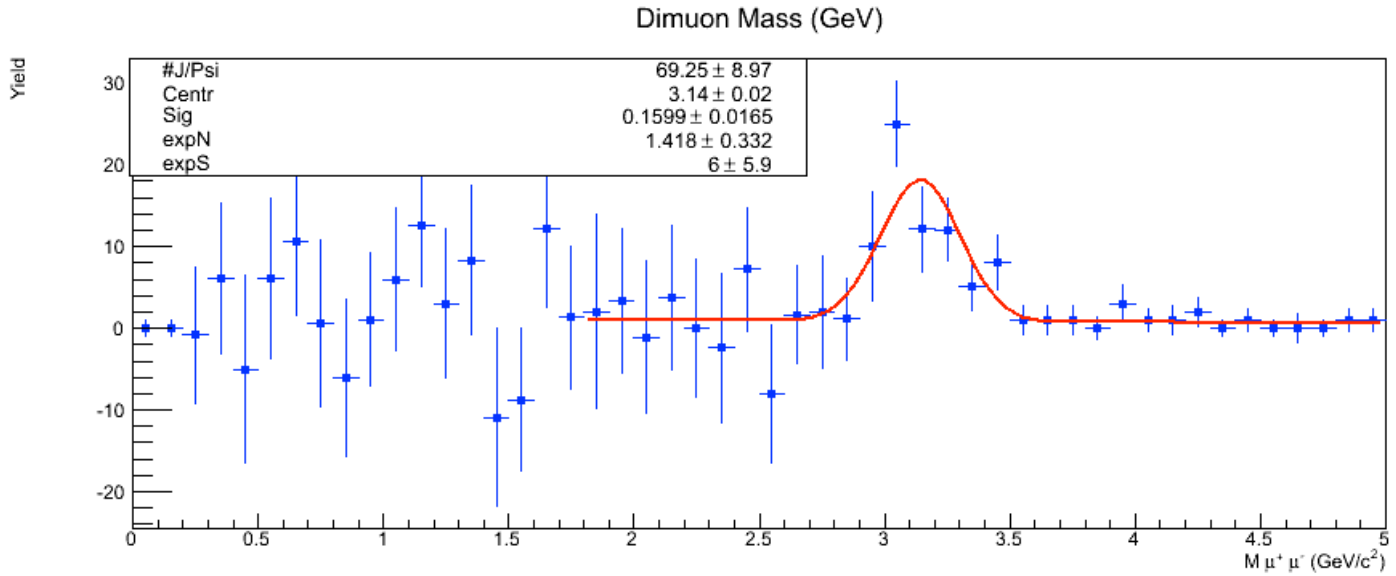
bbc charge sum (10 bins: 0~1900)

with vtx-bbc event selection



J/ψ Samples from Peripheral Collisions





Only processed <5% (roughly) of the data collected in the counting house for peripheral collisions only.

Fishing our J/ψ from the most central collisions are much harder to do at the present time.

Ongoing Drift Chamber Repair

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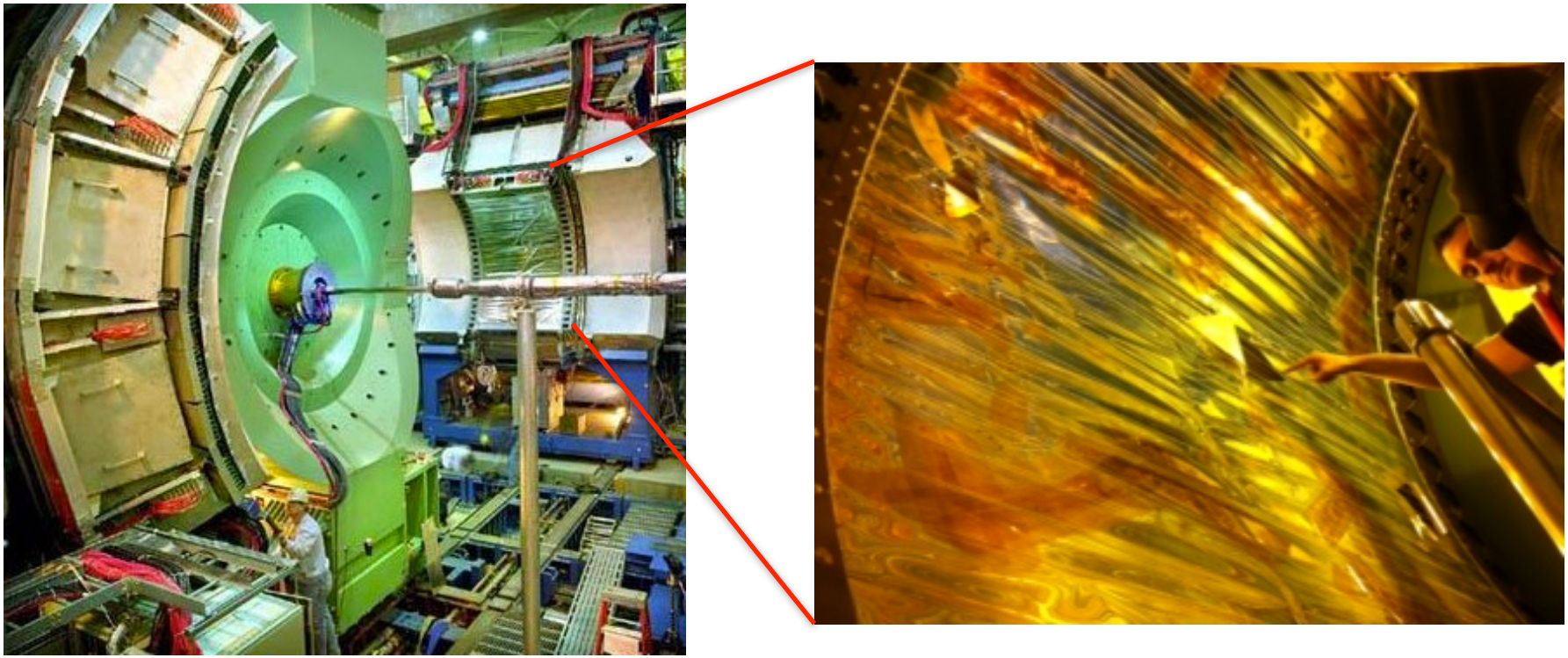

- We started purging gas early yesterday morning.
- Repairing work started at 10 am this morning.
- Should be done before 5 pm.