PHENIX Run-15 Status

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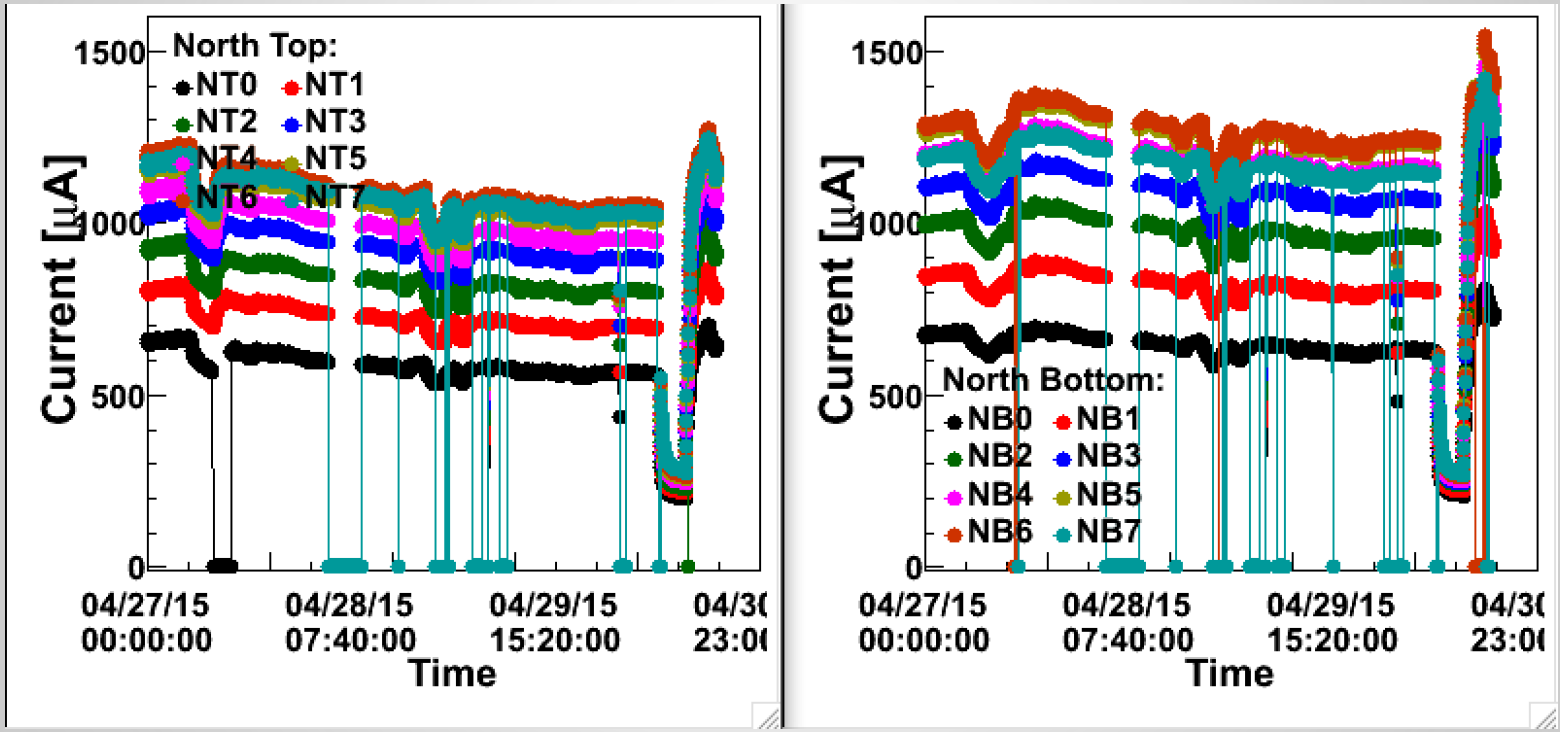
MPCEX Status

- Ready for p+Au data taking
  - Sensitivity adjusted for higher energy deposits
- Leakage current increased last week after a few beam losses
  - Bias Voltage has been increased to account for this

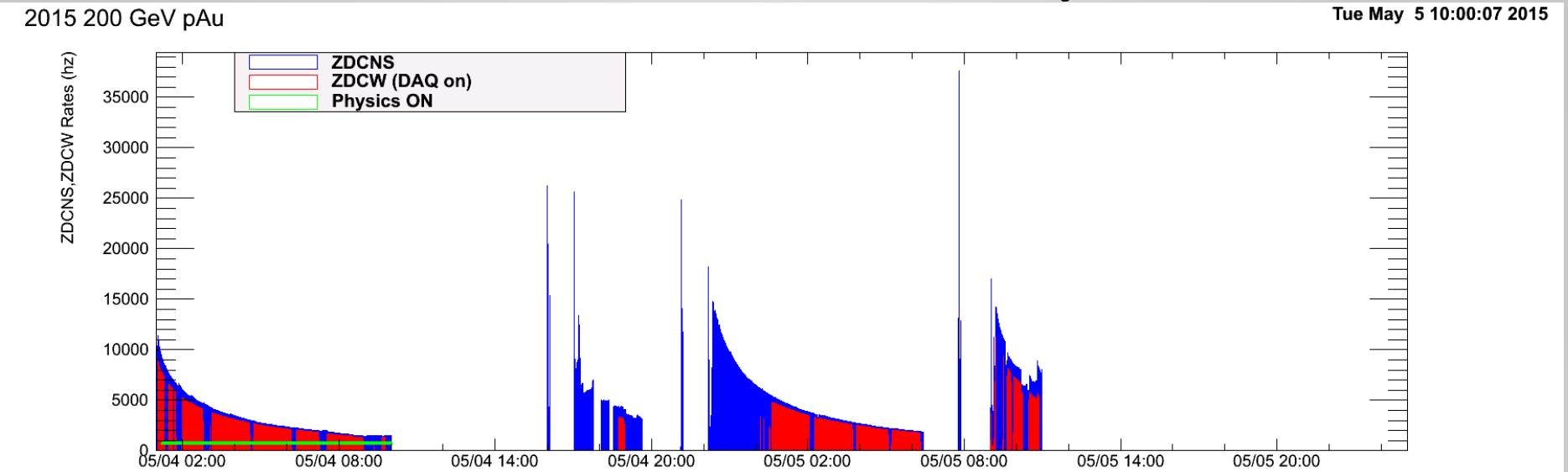


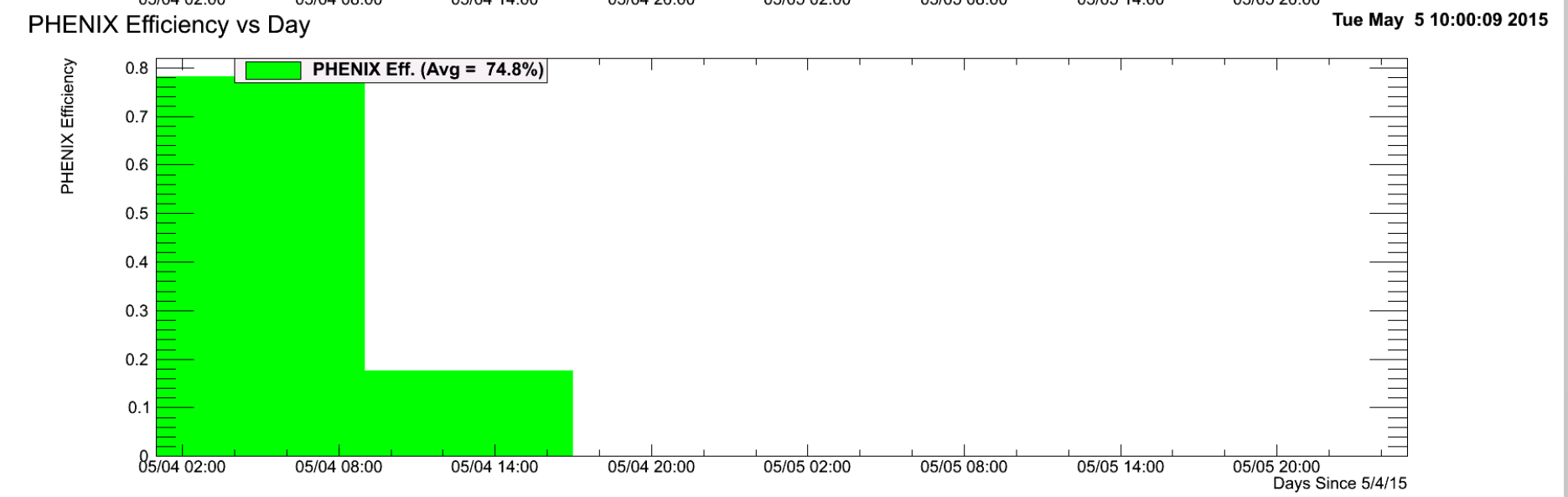
Time Meeting

Luminosity Goals

- p+Au @ 200 GeV with transverse polarization of the proton for 5 weeks [Physics driven goal is ***190 nb^{-1}*** sampled within ***|z| < 40 cm*** and ***<P> = 60%***. We note that the request is with half the data switching the beams to Au+p.]
- p+Al @ 200 GeV with transverse polarization of the proton for 2 weeks [Physics driven goal is ***450 nb^{-1}*** sampled within ***|z| < 40 cm*** and ***<P> = 60%***]
- In our BUP, (https://indico.bnl.gov/getFile.py/access?resId=0&materialId=0&confId=764) we state that we assume PHENIX uptime 70%, fraction of events within +/- 10 cm (25%) and +/- 40 cm (70%).

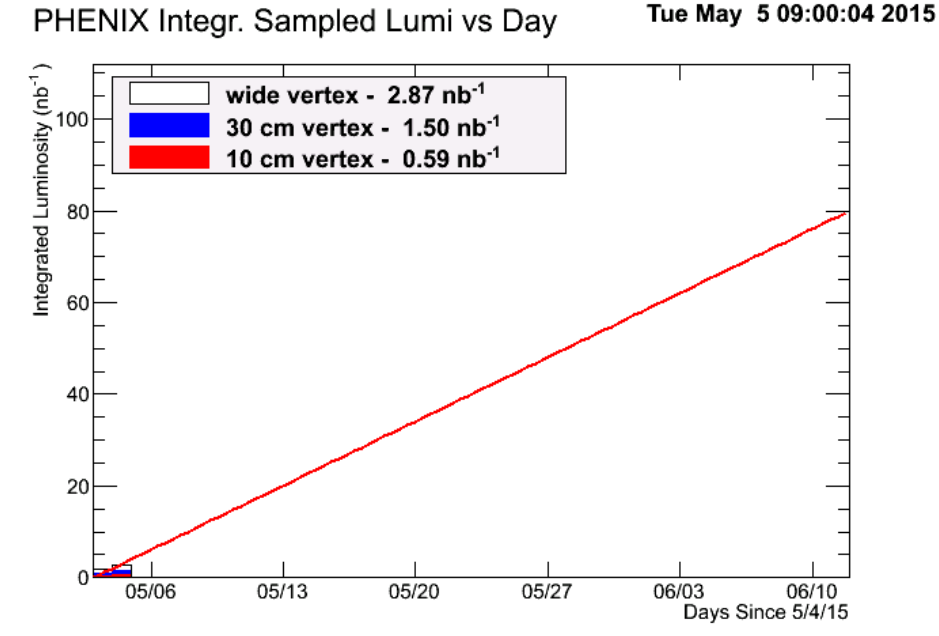
PHENIX Efficiency

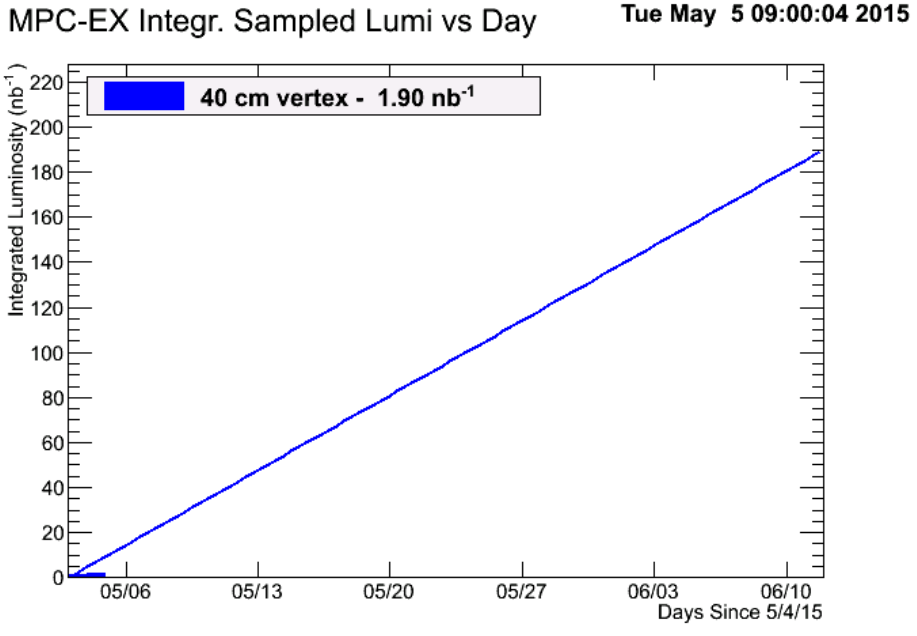




Time Meeting

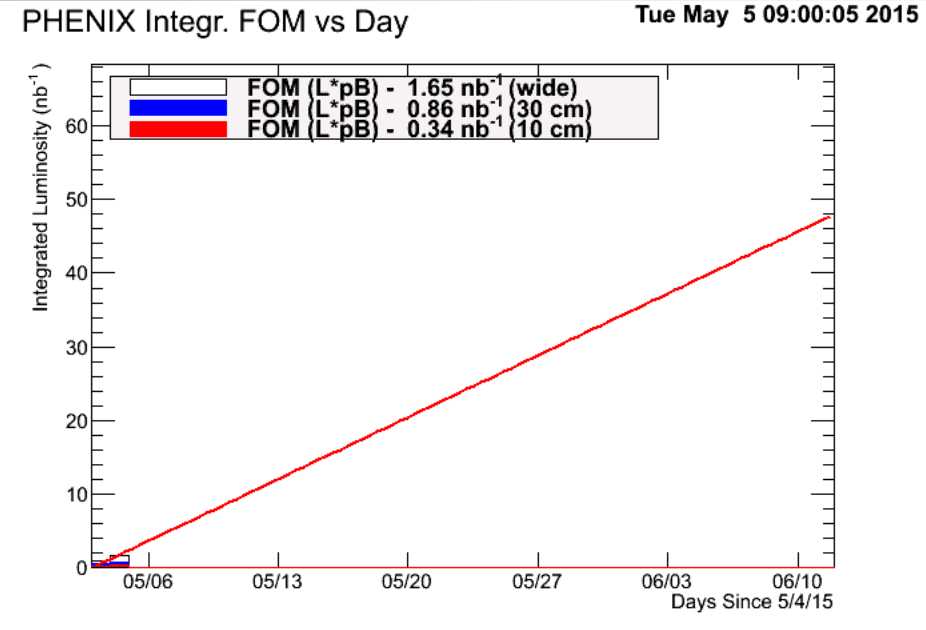
Luminosity Progress

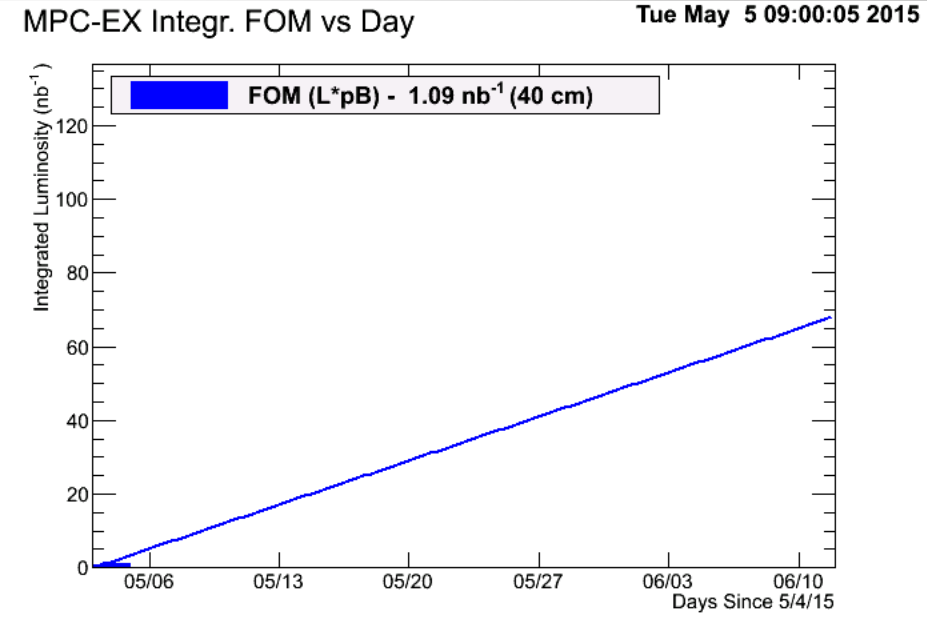




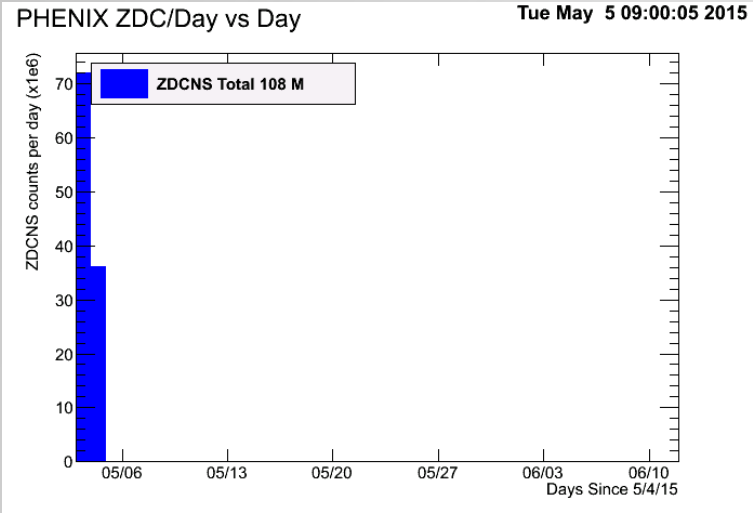
Time Meeting

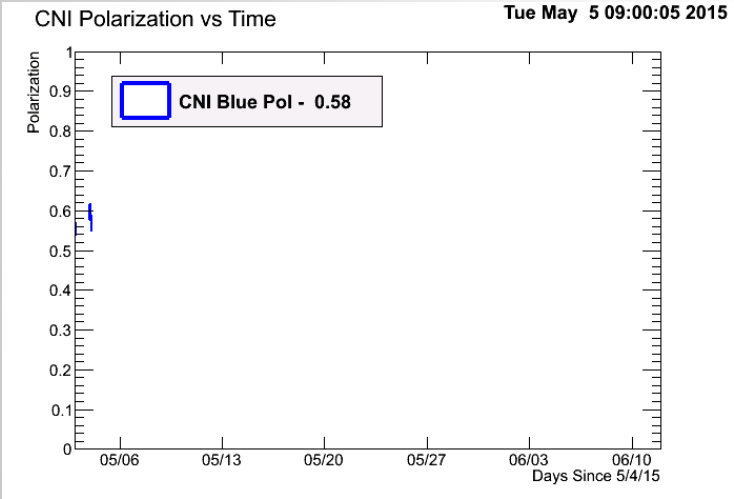
FOM Progress

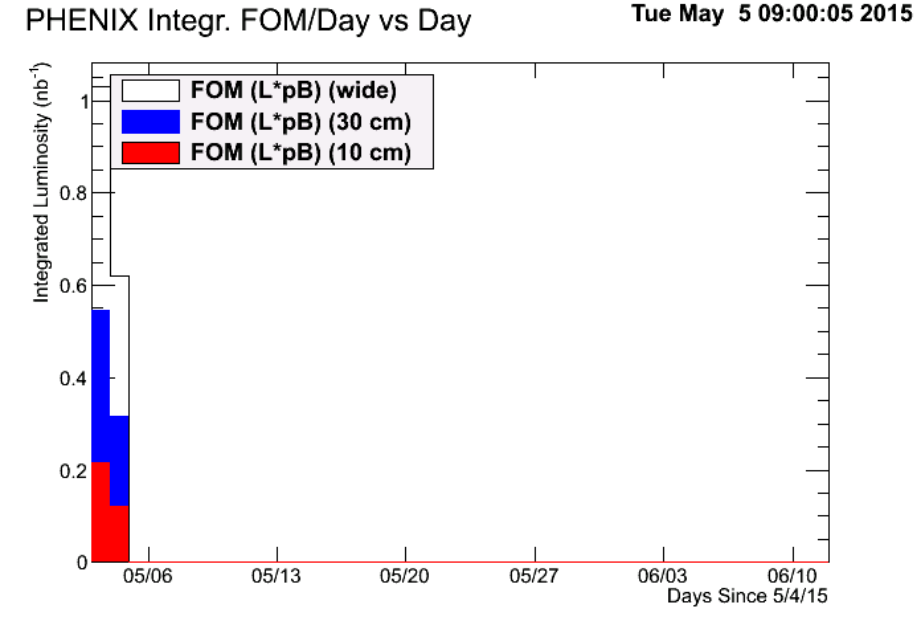




PHENIX FOM Progress







Time Meeting

Summary

- Were affected by unexpected beam loss events, but have recovered and are ready to take data.
- Our triggers are setup, and we are taking data when good stores are available.

Backup

Progress Towards Physics Goals (p+p)

- Two physics programs:
  - Forward direct gamma physics with the MPC-EX
    - p+p @ 200 GeV with transverse polarization for 9 weeks [Physics driven goal is ***50 pb^{-1}*** recorded within ***|z| < 40 cm*** and ***<P> = 60%***]
  - Heavy Flavor physics using the F/VTX
    - p+p @ 200 GeV with transverse polarization for 9 weeks [Physics driven goal is ***21 pb^{-1}*** recorded within ***|z| < 10 cm*** and ***<P> = 60%***]
- In our BUP, (https://indico.bnl.gov/getFile.py/access?resId=0&materialId=0&confId=764) we state that we assume PHENIX uptime 70%, fraction of events within +/- 10 cm (25%) and +/- 40 cm (70%).