

PHENIX Run-15 Status

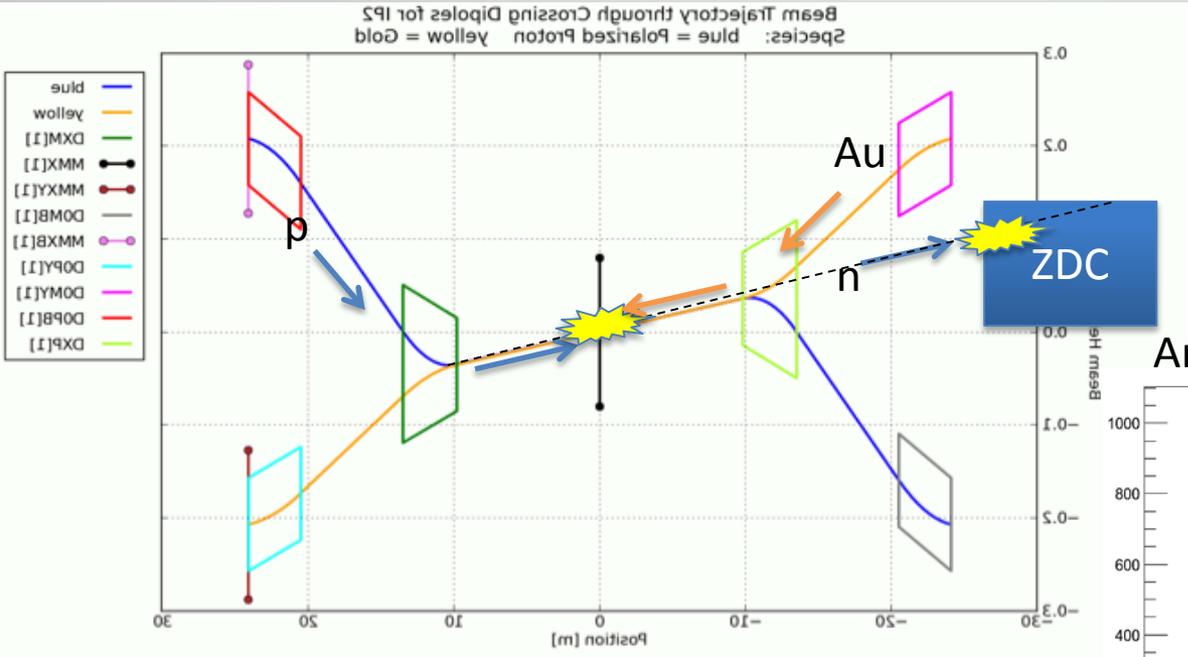
Douglas Fields

PHENIX Run-15 Run Coordinator

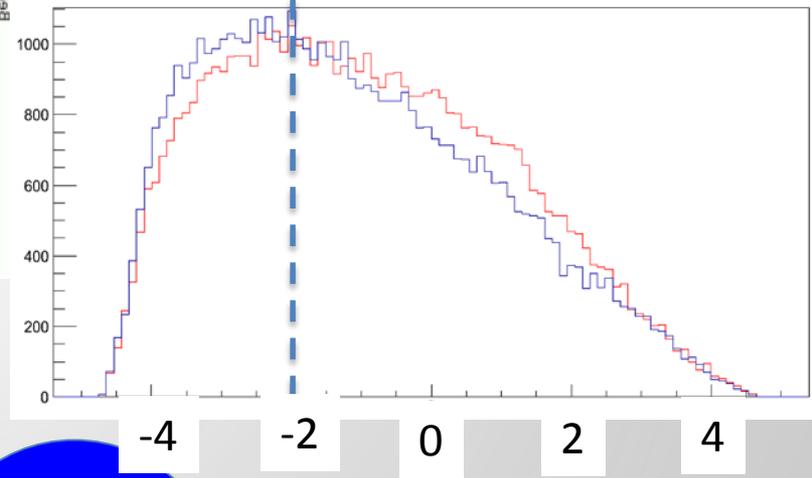
University of New Mexico



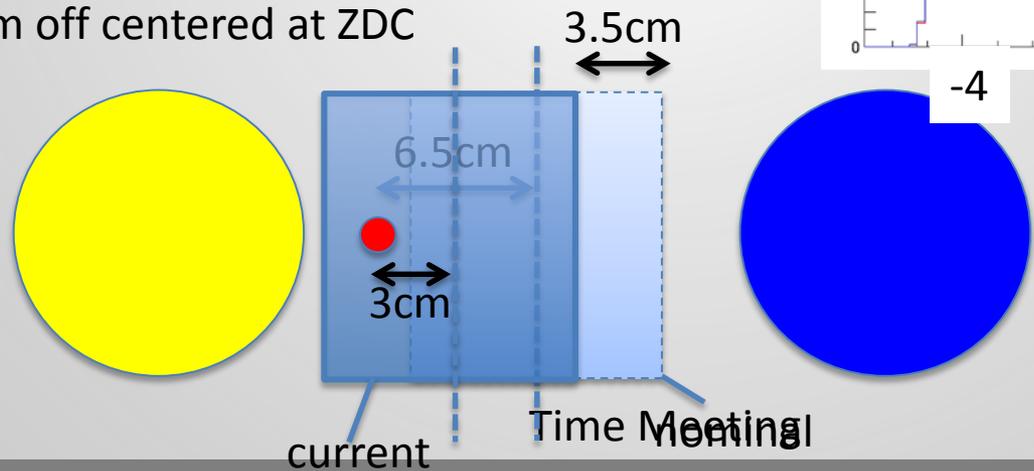
Caveat of Neutron Beam Position



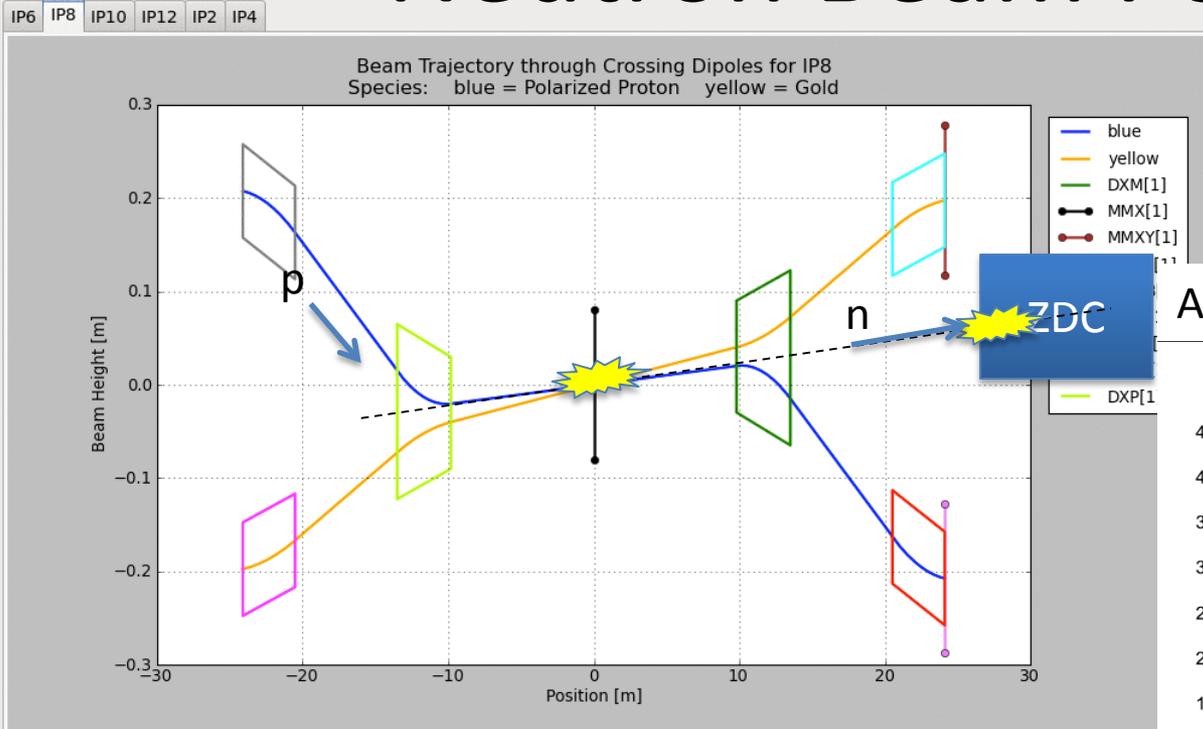
Analysis by Minjung Kim (SNU/RIKEN)



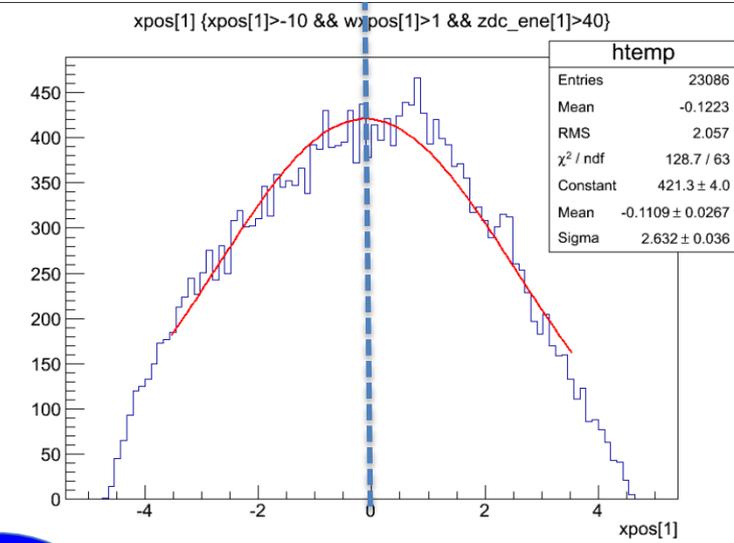
Beams are angled by 3.6mrad
 -> ~ 6.5cm off centered at ZDC



Neutron Beam Position

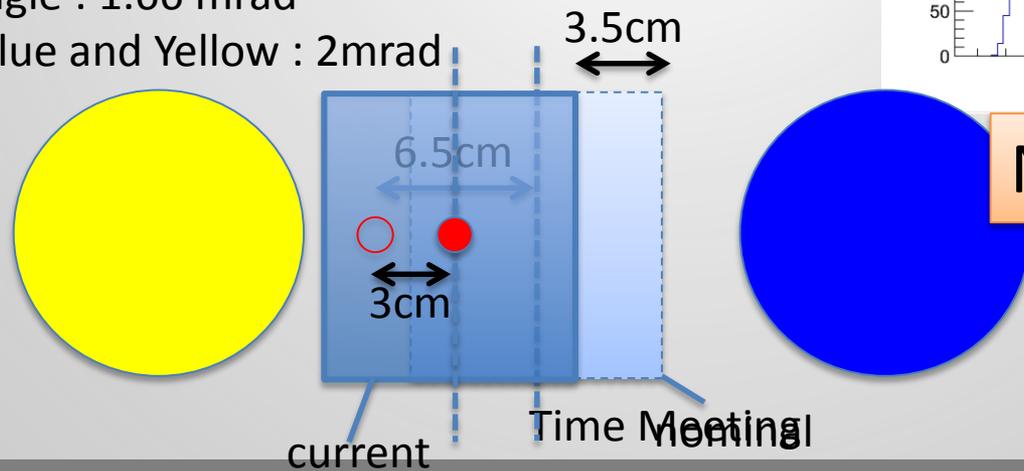


Analysis by Minjung Kim (SNU/RIKEN)



Blue beam angle : 1.66 mrad

Angle btwn Blue and Yellow : 2mrad



Nicely centered!

Data Taking

- 6x6 Bunches, 2hours store
- Luminosity loss $\sim 1/4^{\text{th}}$
 - ▮ ZDC North Single Rate $\sim 4\text{kHz}$ at the beginning
 - ▮ Enough rates for physics data taking
- Accumulated 9M ZDC North Triggers in 1hour
 - ▮ Expecting 5% statistical precision for 3 energy bins

Thank you very much MCR and STAR for cooperation !!

We will come back for pAl

Time Meeting



p+Au Luminosity Goals

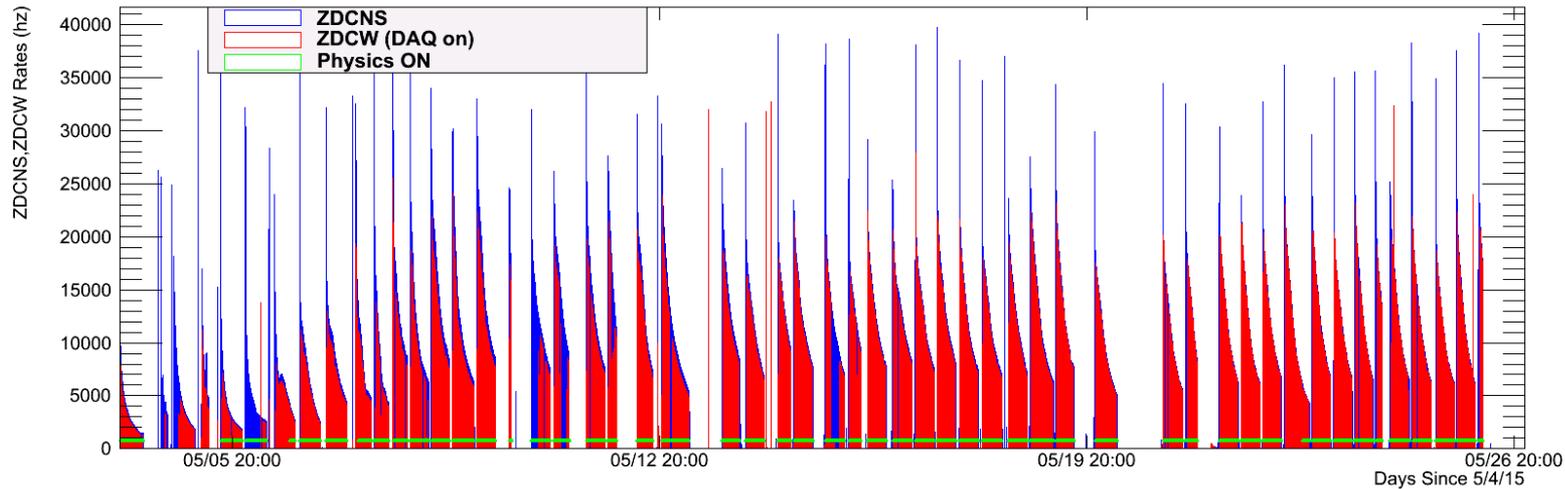
- p+Au @ 200 GeV with transverse polarization of the proton for 5 weeks [Physics driven goal is **190 nb^{-1}** sampled within $|z| < 40 \text{ cm}$ and $\langle P \rangle = 60\%$. We note that the request is with half the data switching the beams to Au+p.]
- p+Al @ 200 GeV with transverse polarization of the proton for 2 weeks [Physics driven goal is **450 nb^{-1}** sampled within $|z| < 40 \text{ cm}$ and $\langle P \rangle = 60\%$]
- 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

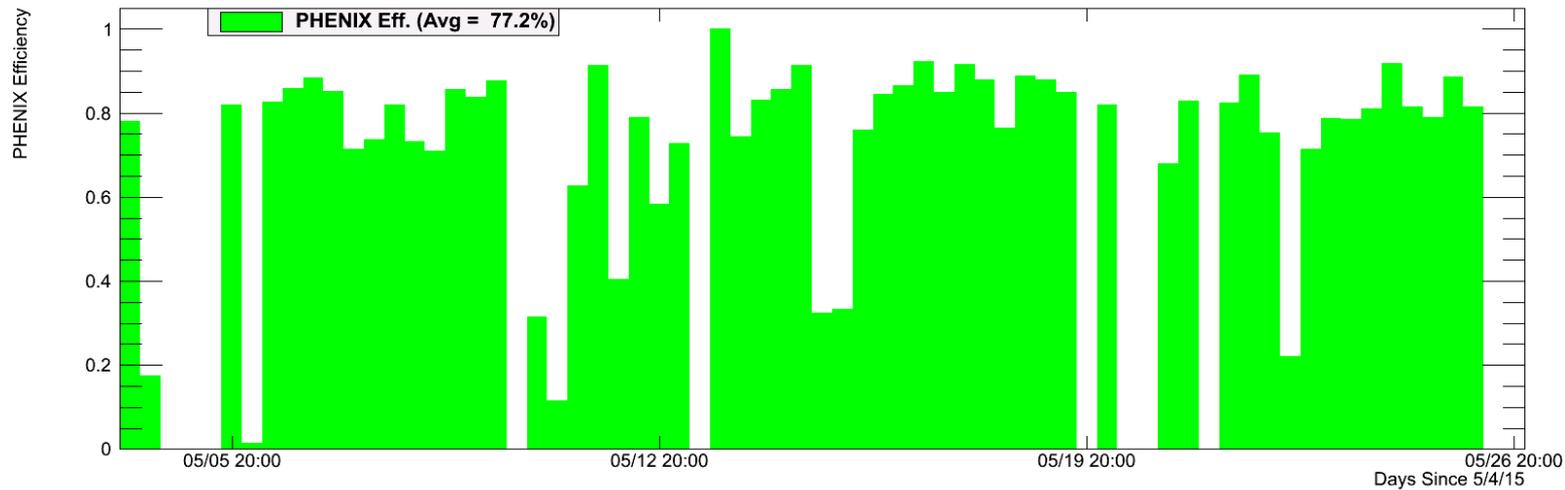
2015 200 GeV pAu

Tue May 26 11:00:33 2015



PHENIX Efficiency vs Day

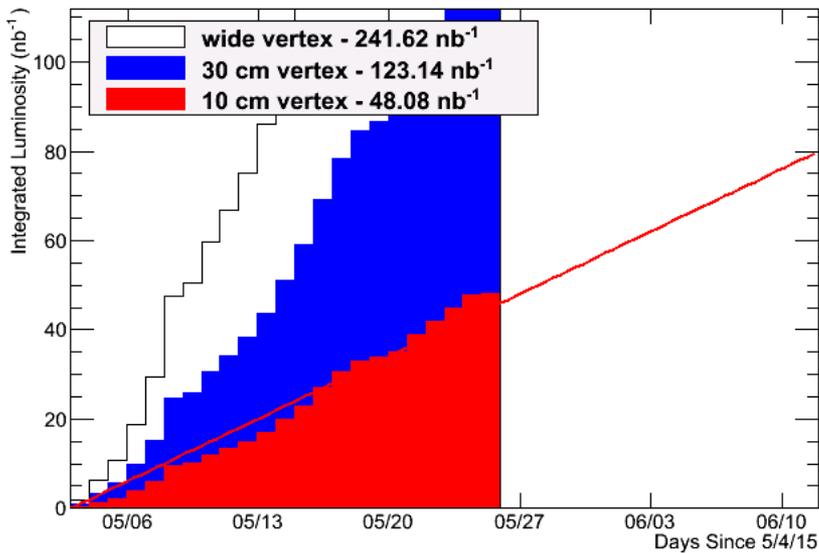
Tue May 26 11:00:42 2015



Luminosity Progress

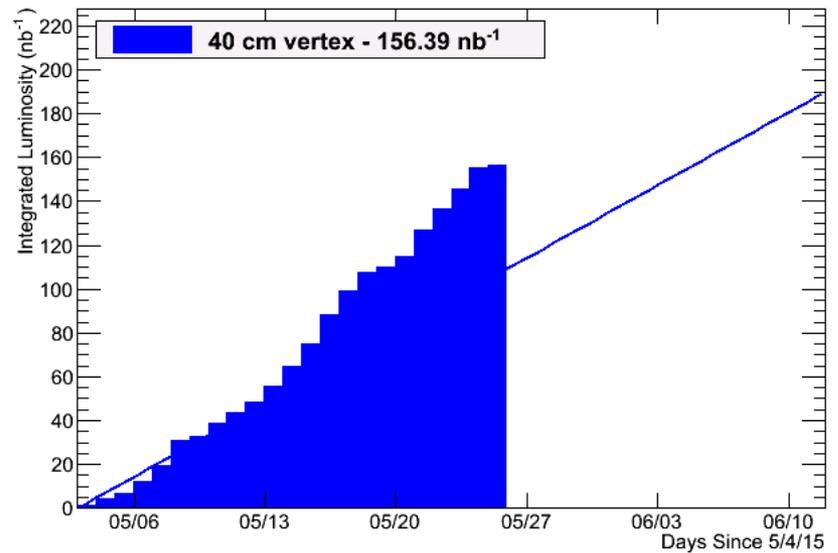
PHENIX Integr. Sampled Lumi vs Day

Tue May 26 09:00:16 2015



MPC-EX Integr. Sampled Lumi vs Day

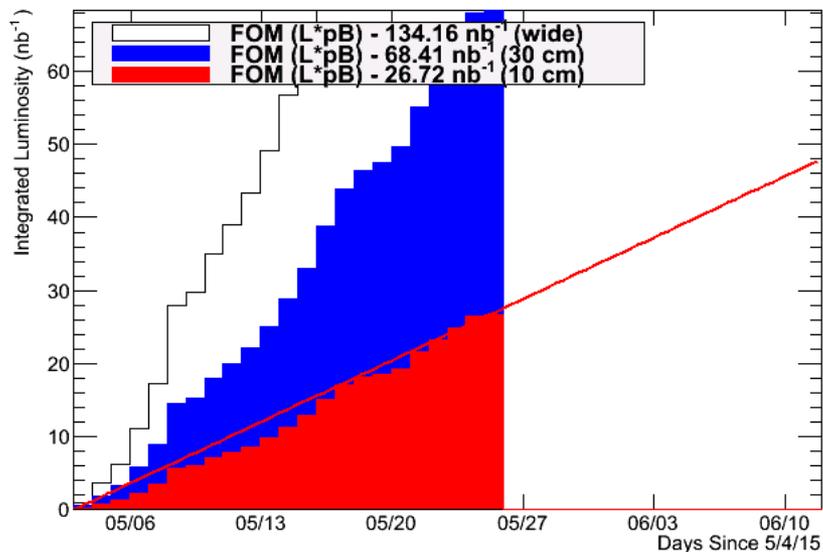
Tue May 26 09:00:16 2015



FOM Progress

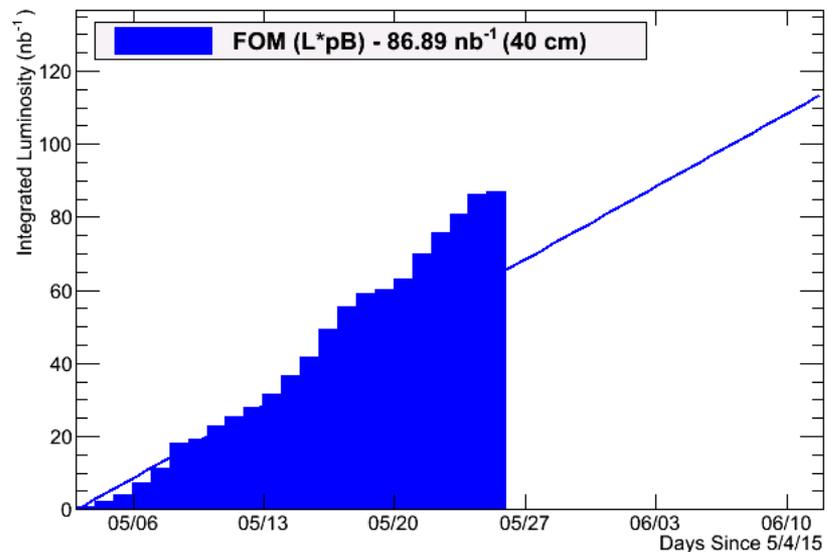
PHENIX Integr. FOM vs Day

Tue May 26 09:00:16 2015



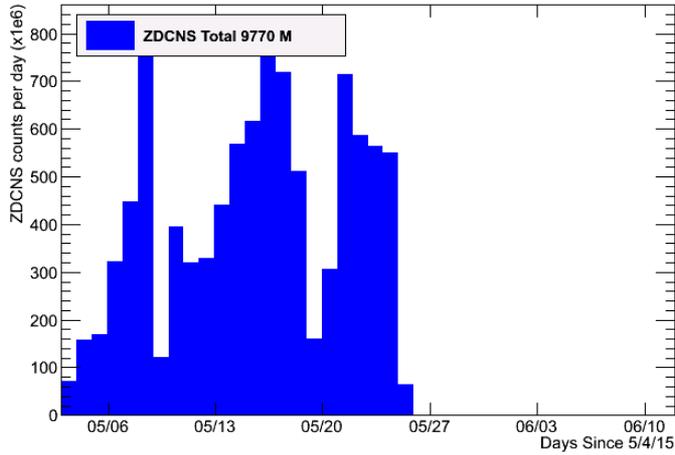
MPC-EX Integr. FOM vs Day

Tue May 26 09:00:17 2015

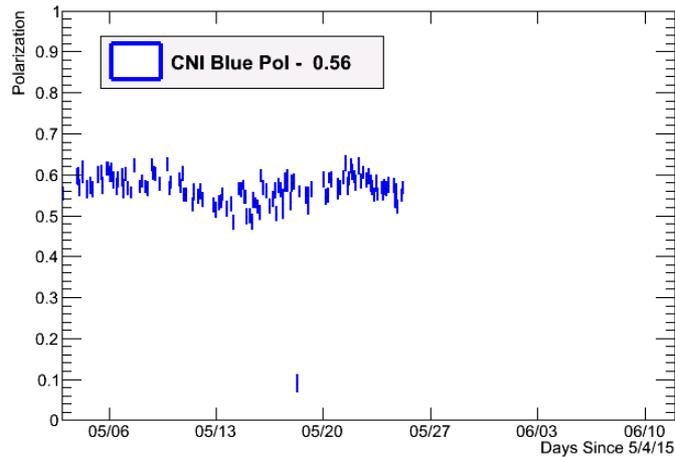


PHENIX FOM Progress

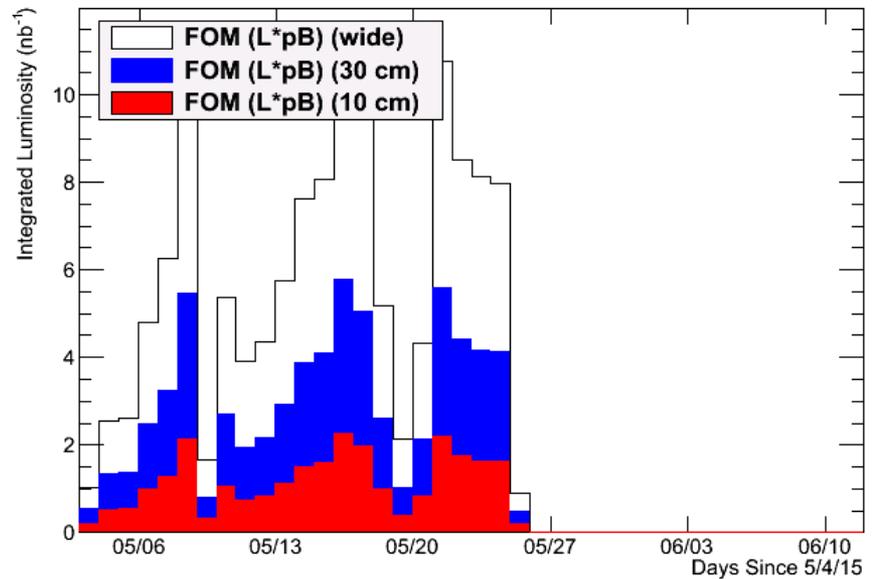
PHENIX ZDC/Day vs Day Tue May 26 09:00:16 2015



CNI Polarization vs Time Tue May 26 09:00:16 2015



PHENIX Integr. FOM/Day vs Day Tue May 26 09:00:17 2015



Summary

- We are on track to meet our goals by June 8 for the switch to pAI running.

