

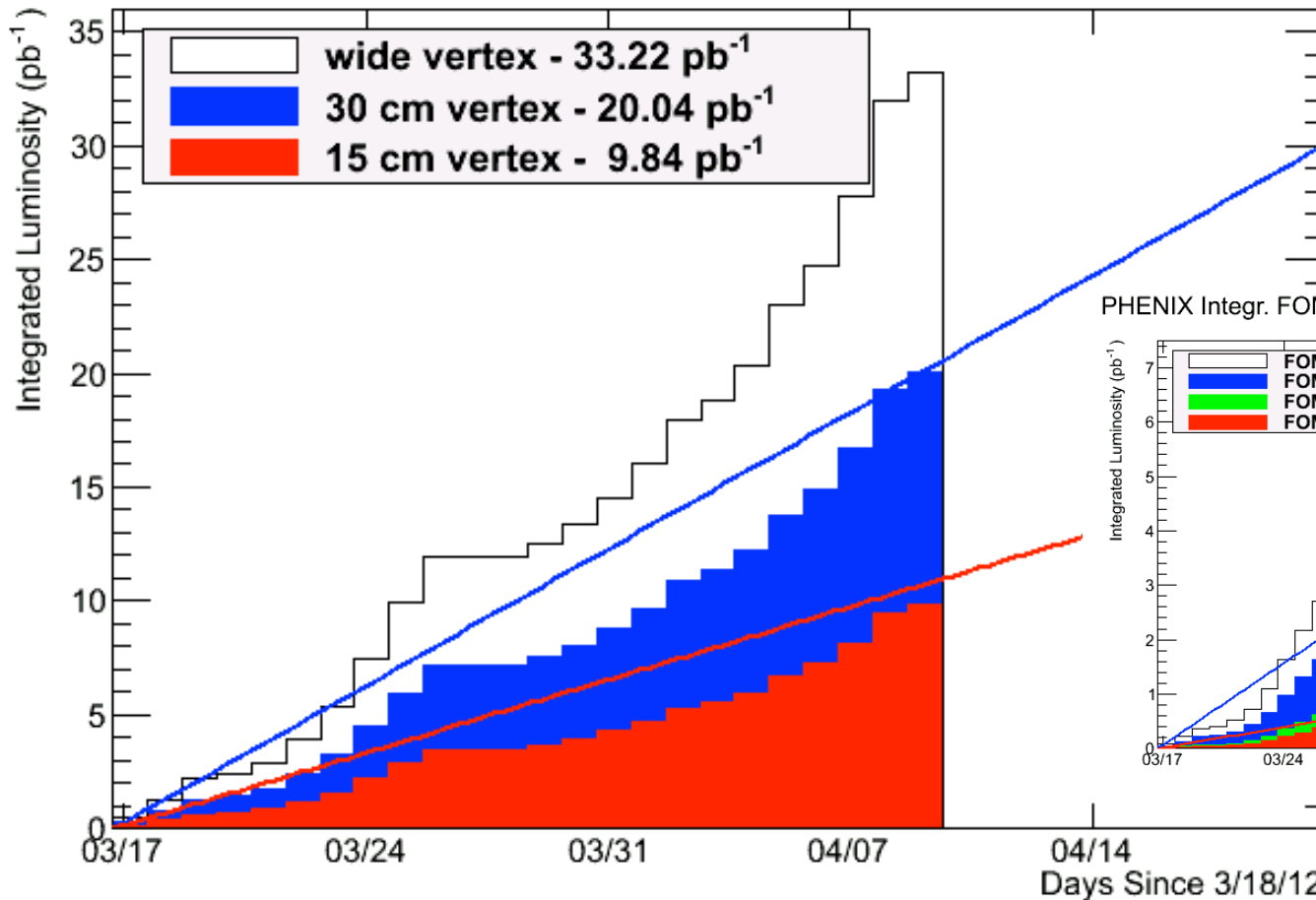
Thanks go to John Haggerty and John Koster for making the summary plots.

PHENIX DATA TAKING EFFICIENCY

Integrated Sampled Luminosity

PHENIX Integr. Sampled Lumi vs Day

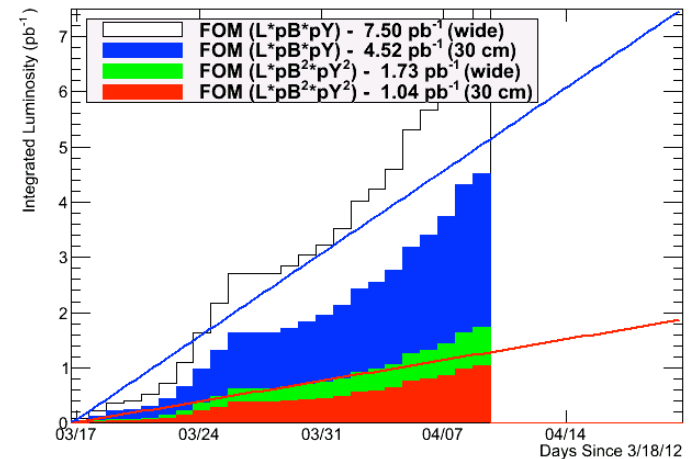
Tue Apr 10 12:04:45 2012



PHENIX Integr. FOM vs Day

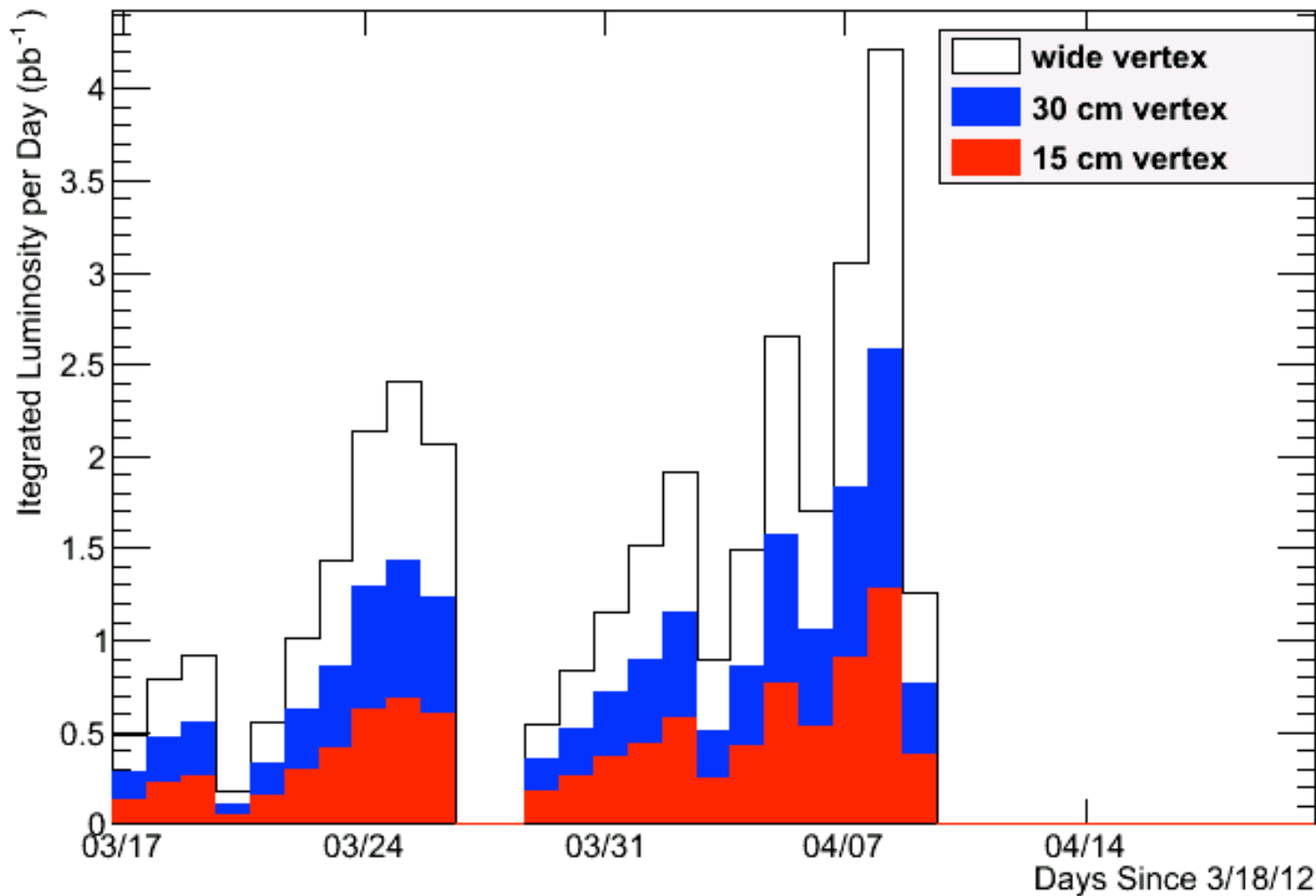
Tue Apr 10 12:04:45 2012

FOM



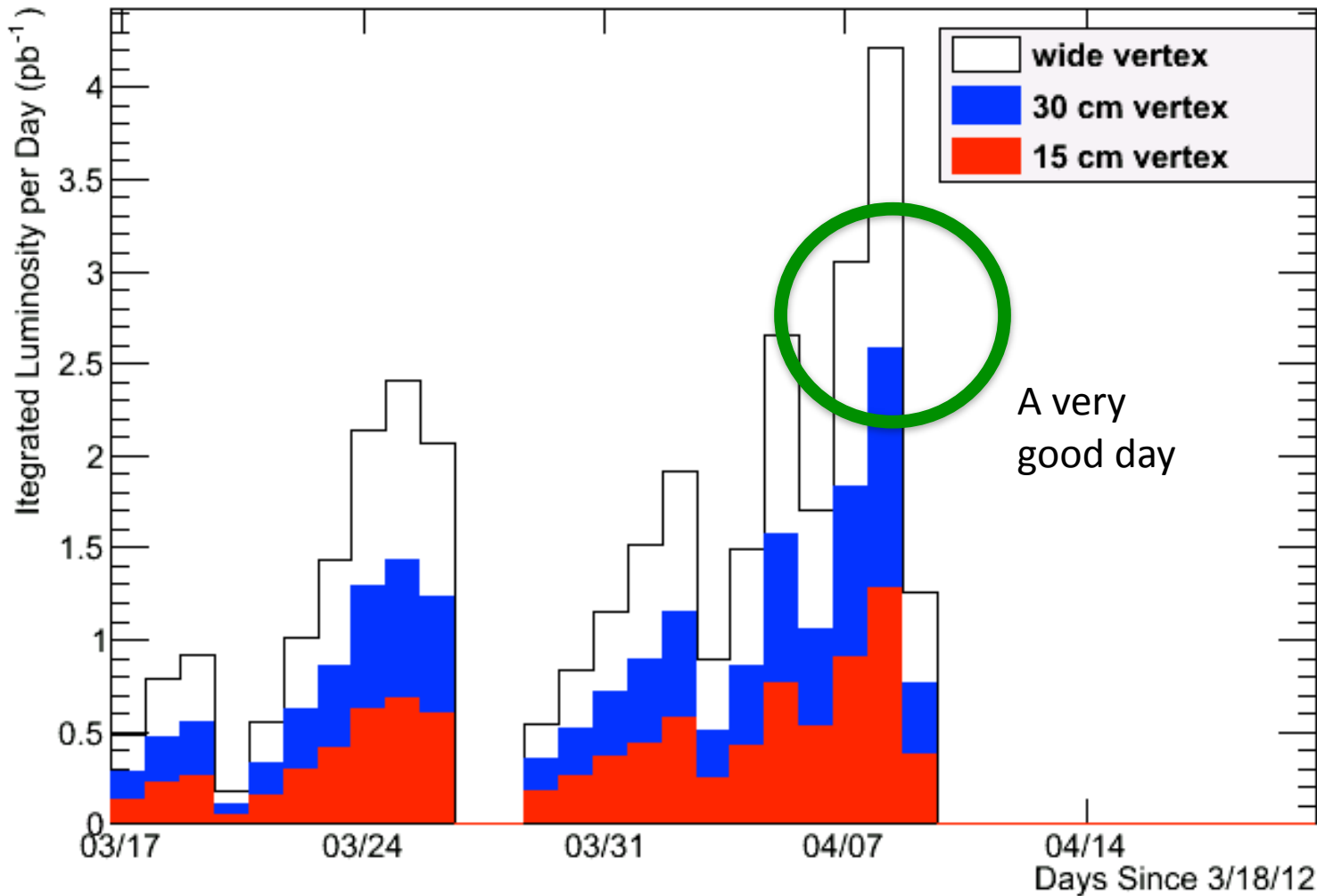
Daily Sampled Luminosity

PHENIX Integr. Sampled Lumi/Day vs Day ue Apr 10 12:04:45 2012



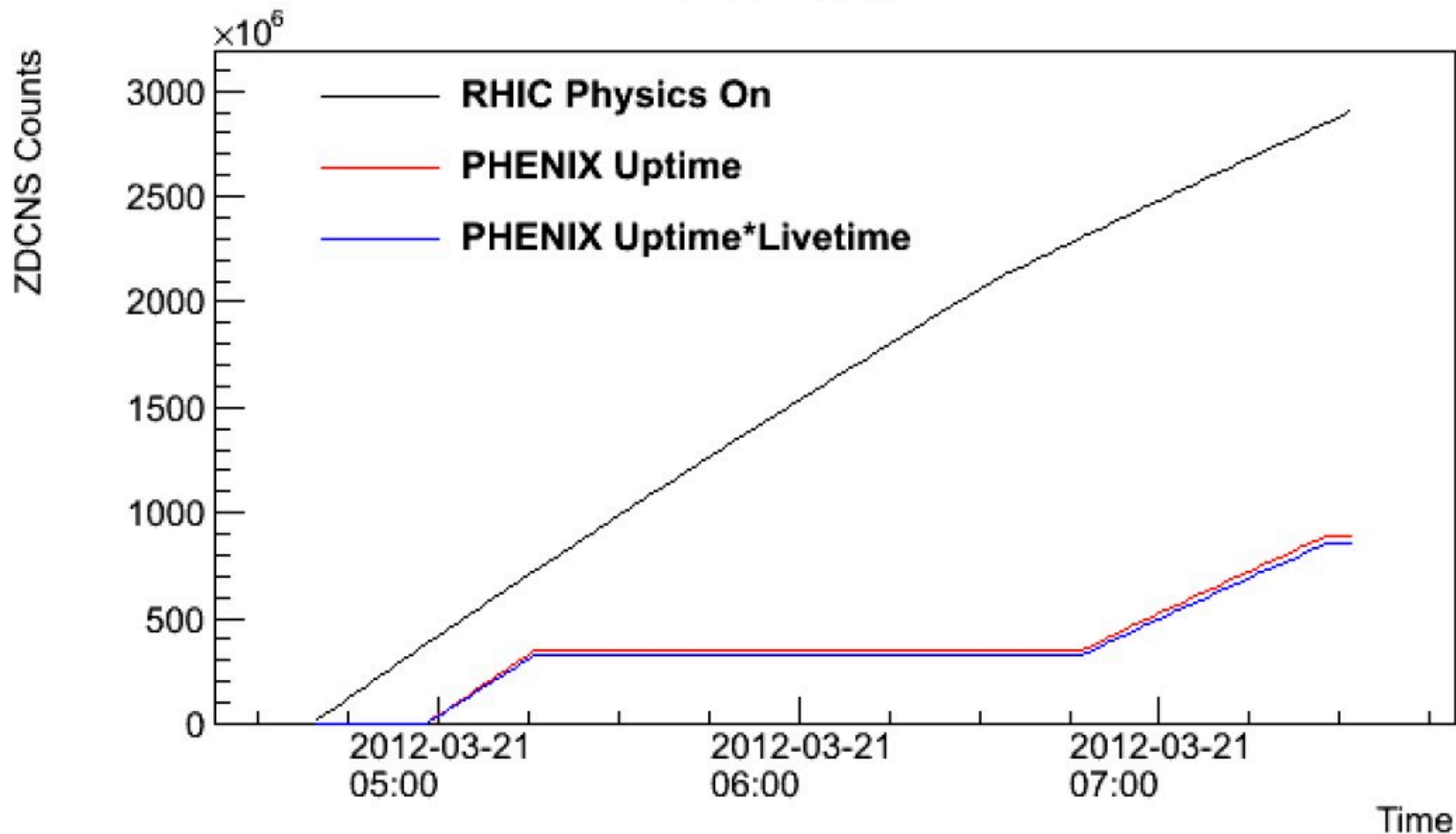
Daily Sampled Luminosity

PHENIX Integr. Sampled Lumi/Day vs Day ue Apr 10 12:04:45 2012



An Earlier Fill (March 21)

Fill: 16597

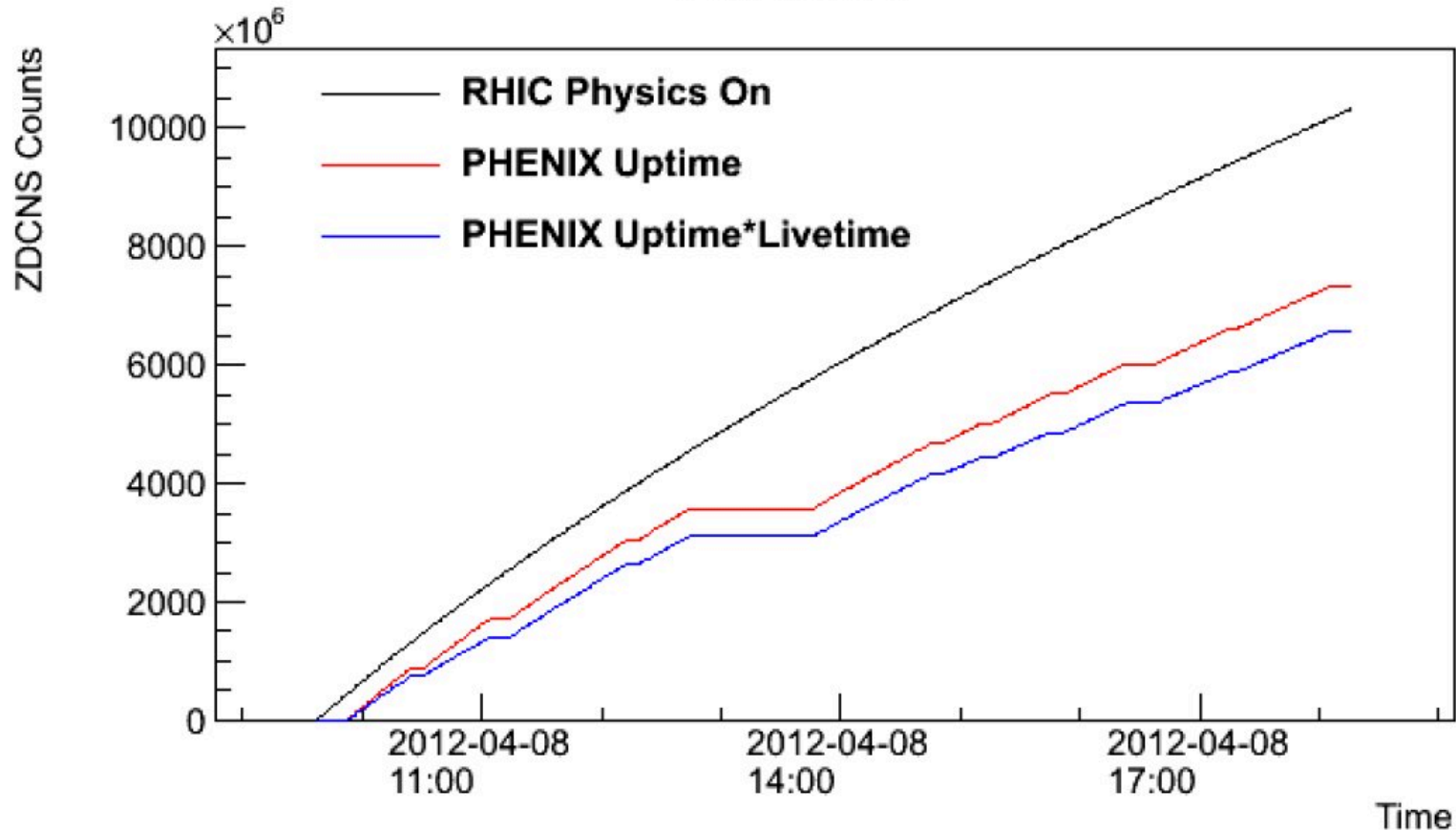


	Int. Lumi.	Efficiency
—	2.90e+09	-
—	8.94e+08	3.08e-01
—	8.57e+08	2.95e-01

W Physics

An Earlier Fill (April 8)

Fill: 16693

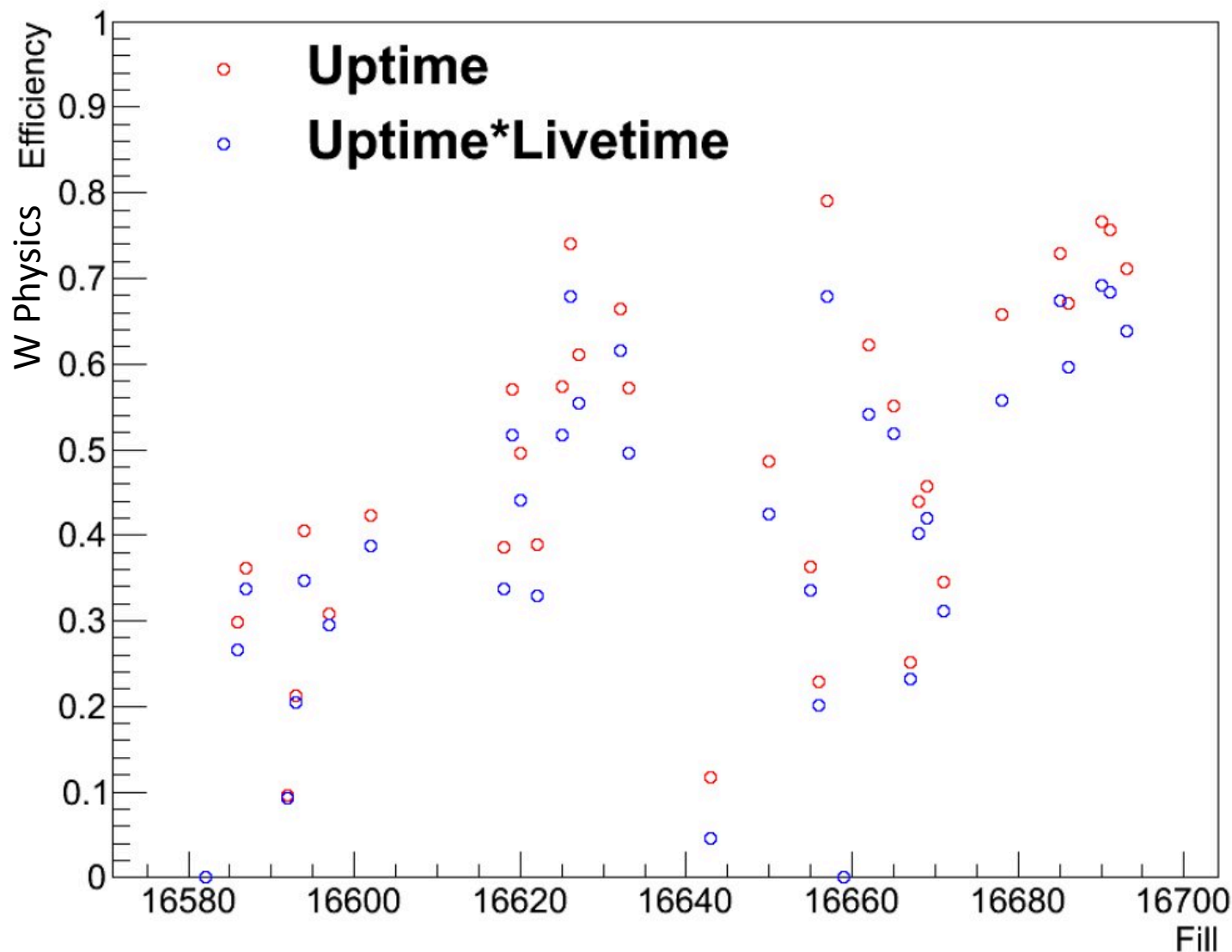


	Int. Lumi.	Efficiency
—	1.03e+10	-
—	7.35e+09	7.12e-01
—	6.59e+09	6.38e-01

W Physics

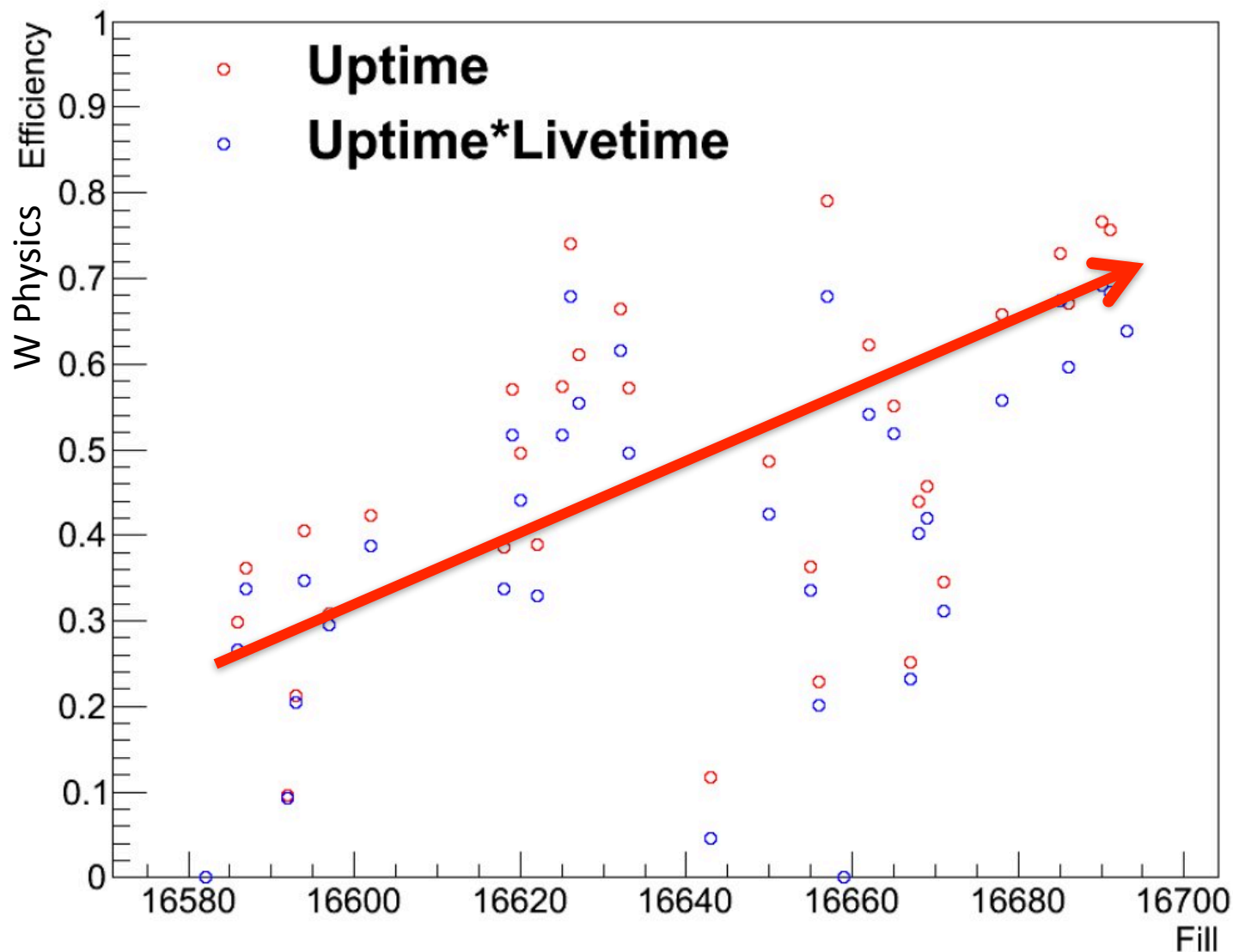
Data Taking Efficiency Summary

Run12pp510 - PHENIX



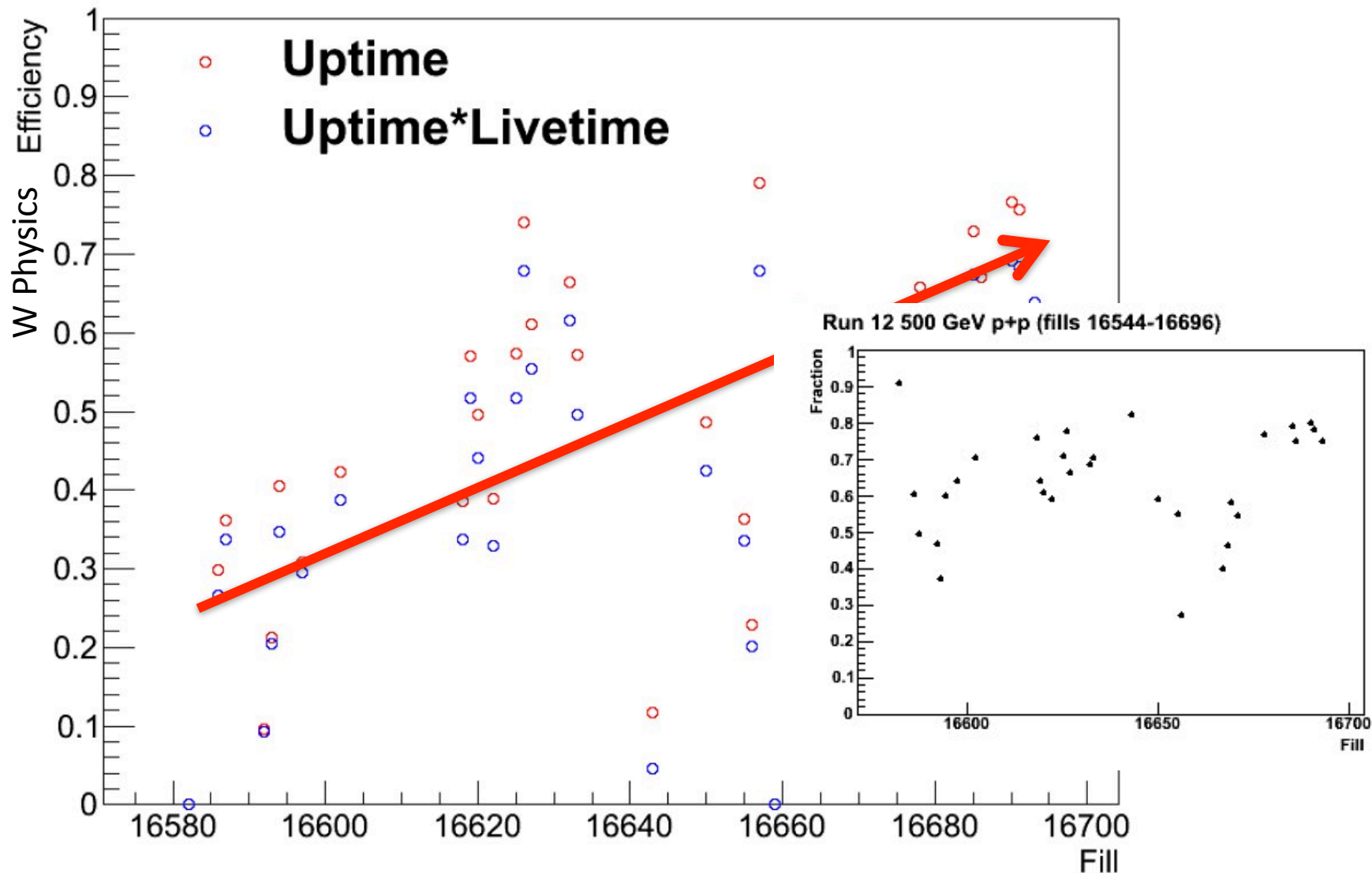
Data Taking Efficiency Summary

Run12pp510 - PHENIX



Data Taking Efficiency Summary

Run12pp510 - PHENIX



Ending Date of Run-12 510 GeV p+p Run???

30 pb⁻¹ sampled luminosity in PHENIX

We are very optimistic about reaching (possibly exceeding!) the goal of the sampled luminosity by 4/19 if the current data taking trend holds. We hope that RHIC will recover quickly after the upcoming long maintenance day (Wednesday for 12 hours) and the APEX study (Thursday for 12 hours).

We were able to recorded 2.5 pb⁻¹ (within 30 cm vertex cut) on 4/9!!!

If we are short to reach the goal by 4/19, it makes sense to run 510 GeV pp to 4/23 as originally planned by C-AD.

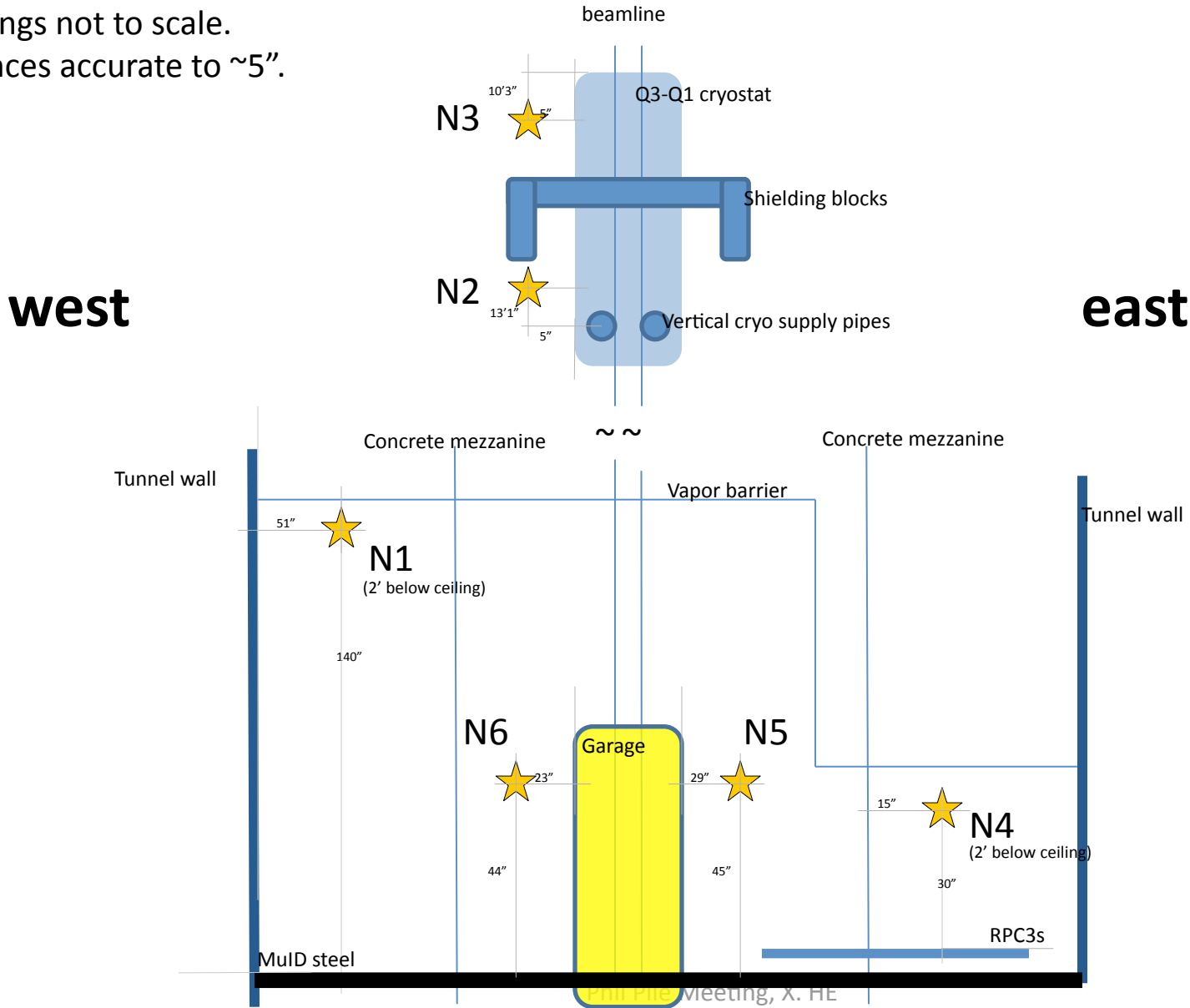
Effects on PHENIX data taking and key detectors. Thanks go to our RPC experts for preparing the plots.

For each mid-fill polarization measurement, it caused between 20 – 30 minutes of downtime of data taking.

MID-FILL POLARIZATION MEASUREMENT

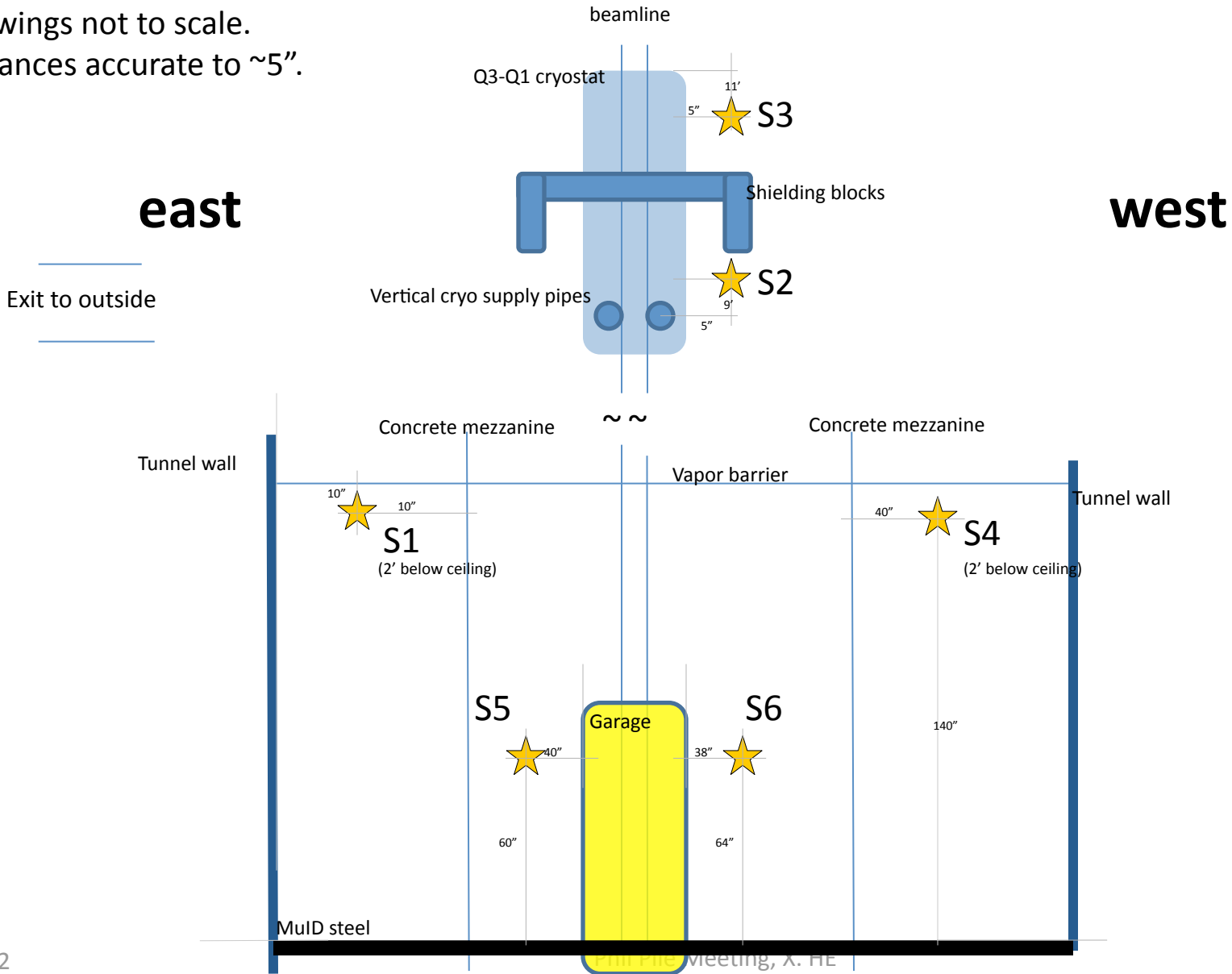
PHENIX Beam Background Counter Positions North

Top view.
Drawings not to scale.
Distances accurate to ~5".



PHENIX Beam Background Counter Positions South

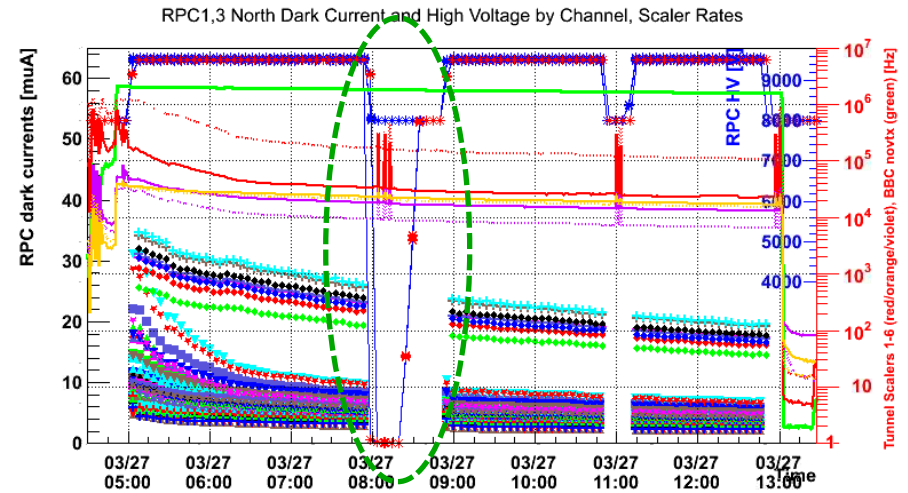
Top view.
 Drawings not to scale.
 Distances accurate to ~5".



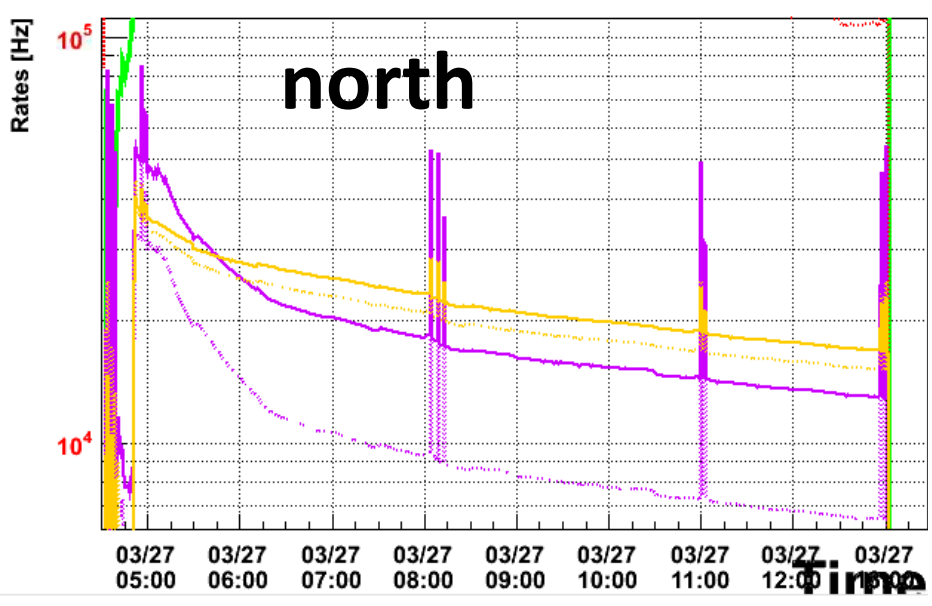
Fill by Fill Details (1)

Fill 2012-03-27 04:30:00 through 2012-03-27 13:30:00. RPC1 North and South trips at beginning of polarization measurement.

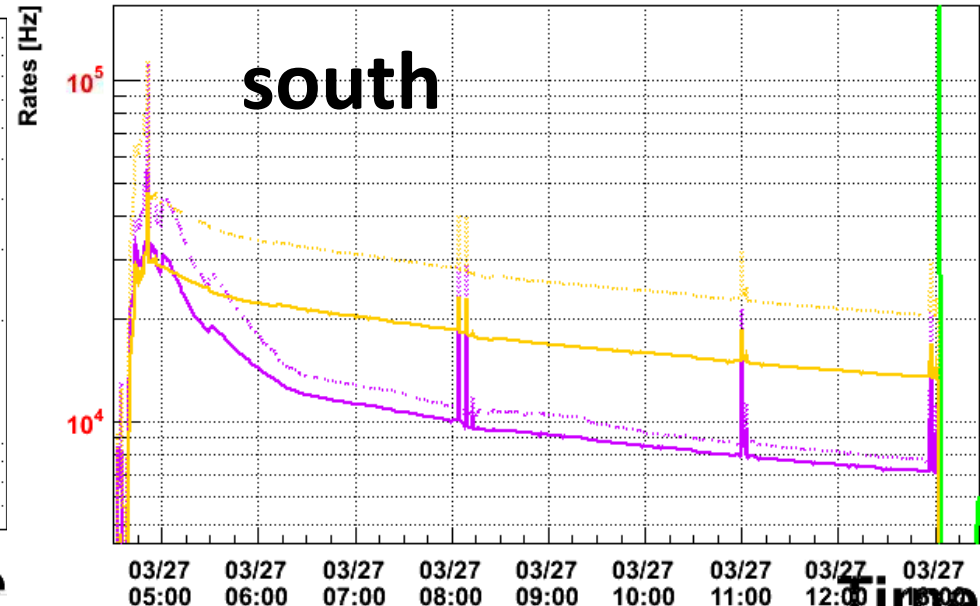
- N1, S1
- ⋯ N4, S4
- N5, S5
- ⋯ N6, S6



Tunnel Scalers 1-6 (red/orange/violet), BBC novtx (green), North

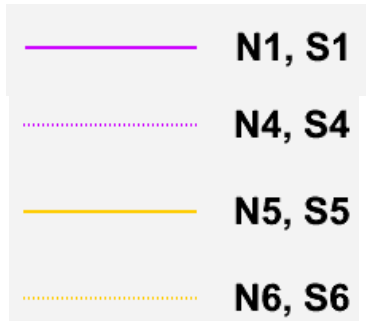


Tunnel Scalers 1-6 (red/orange/violet), BBC novtx (green), South

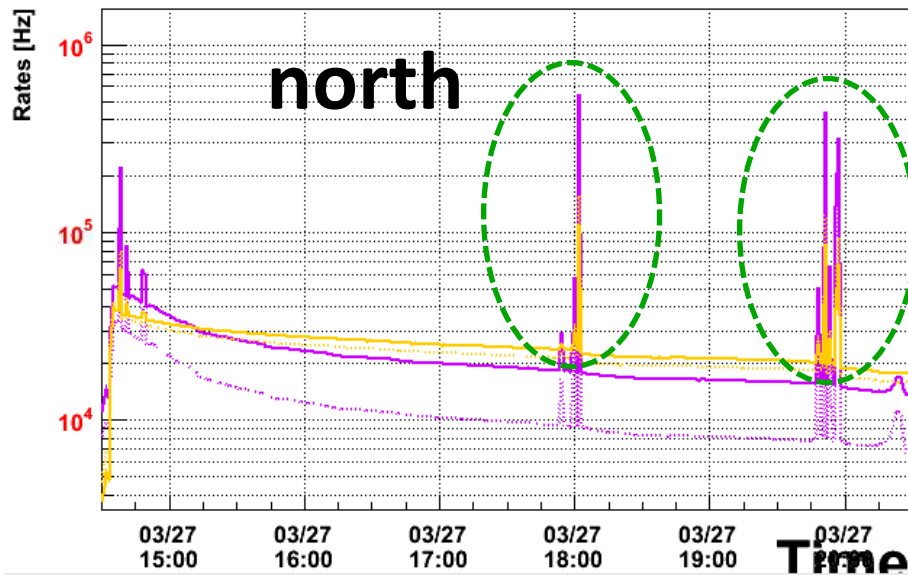


Fill by Fill Details (2)

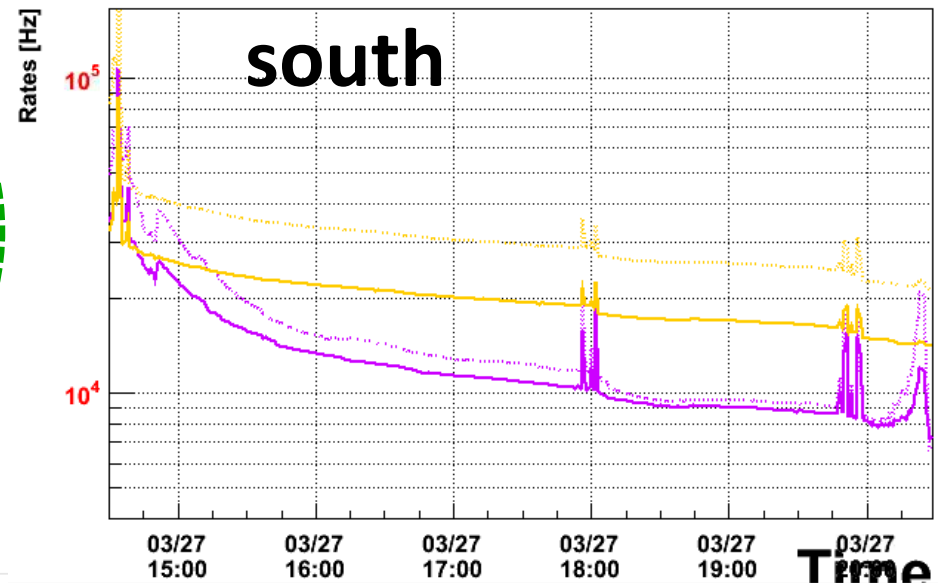
Fill 2012-03-27 14:30:00 through 2012-03-27 20:30:00; background maxima during polarization measurement exceed turn-on criterion for RPC HV.



Tunnel Scalers 1-6 (red/orange/violet), BBC novtx (green), North



Tunnel Scalers 1-6 (red/orange/violet), BBC novtx (green), South

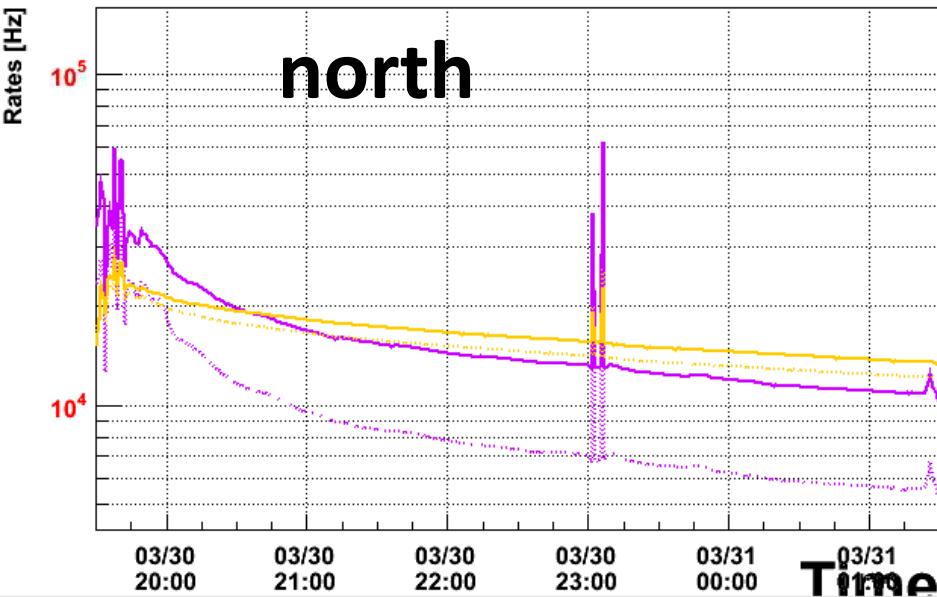


Fill by Fill Details (3)

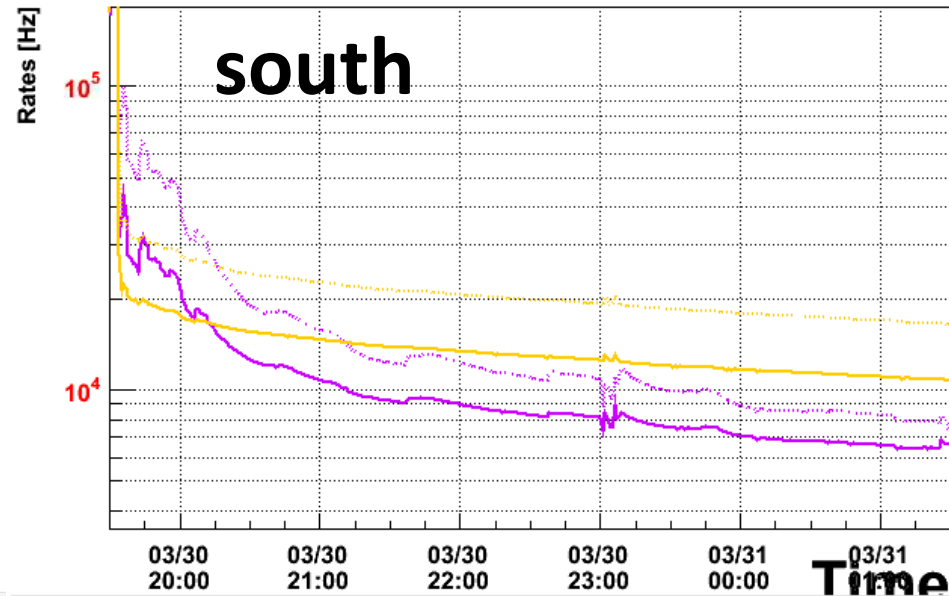
Fill 2012-03-30 19:30:00 through 2012-03-31 01:30:00



Tunnel Scalers 1-6 (red/orange/violet), BBC novtx (green), North

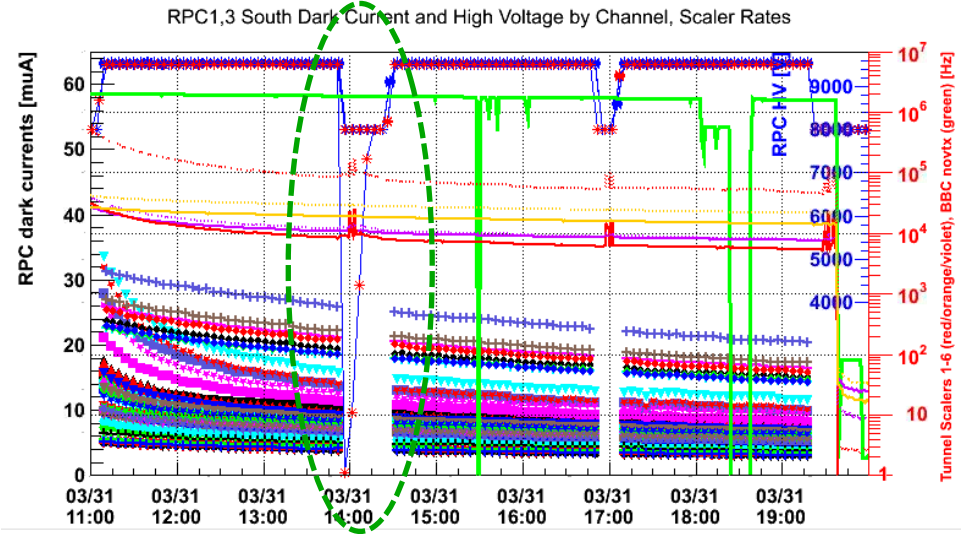
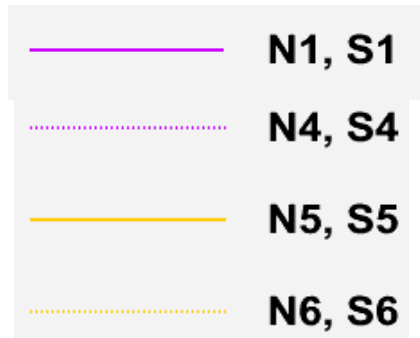


Tunnel Scalers 1-6 (red/orange/violet), BBC novtx (green), South

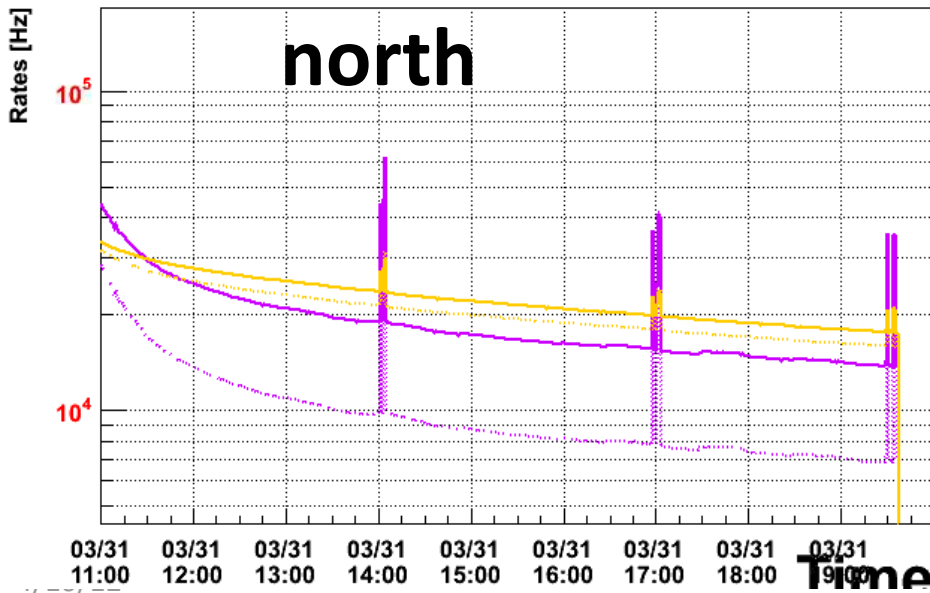


Fill by Fill Details (4)

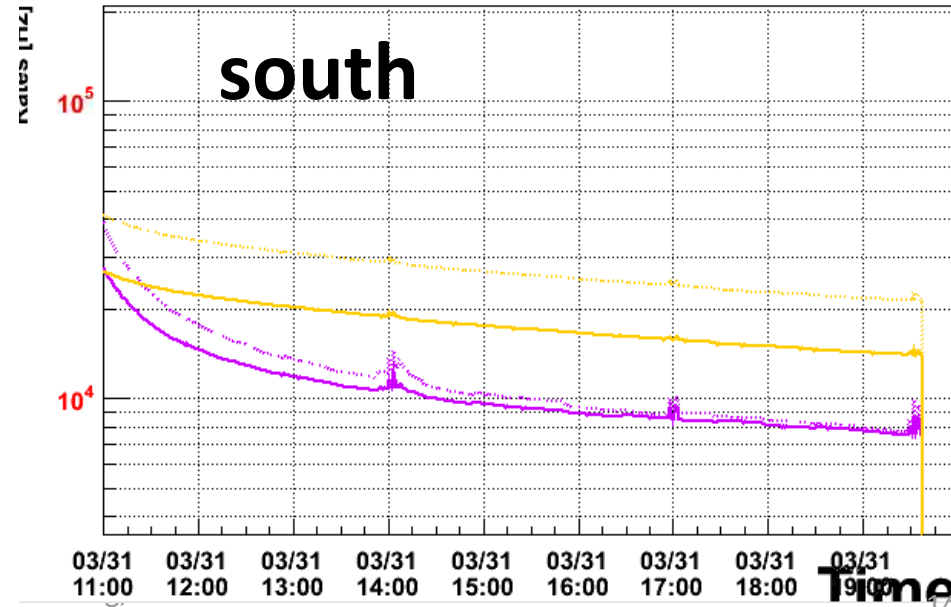
Fill 2012-03-31 11:00:00 through 2012-03-31 20:00:00; trip of RPC1S channel right before polarization measurement



Tunnel Scalers 1-6 (red/orange/violet), BBC novtx (green), North



Tunnel Scalers 1-6 (red/orange/violet), BBC novtx (green), South



**HEAVY ION RUN PLAN WILL BE
PRESENTED NEXT WEEK**