

PHENIX Run-12 Status (4/10)

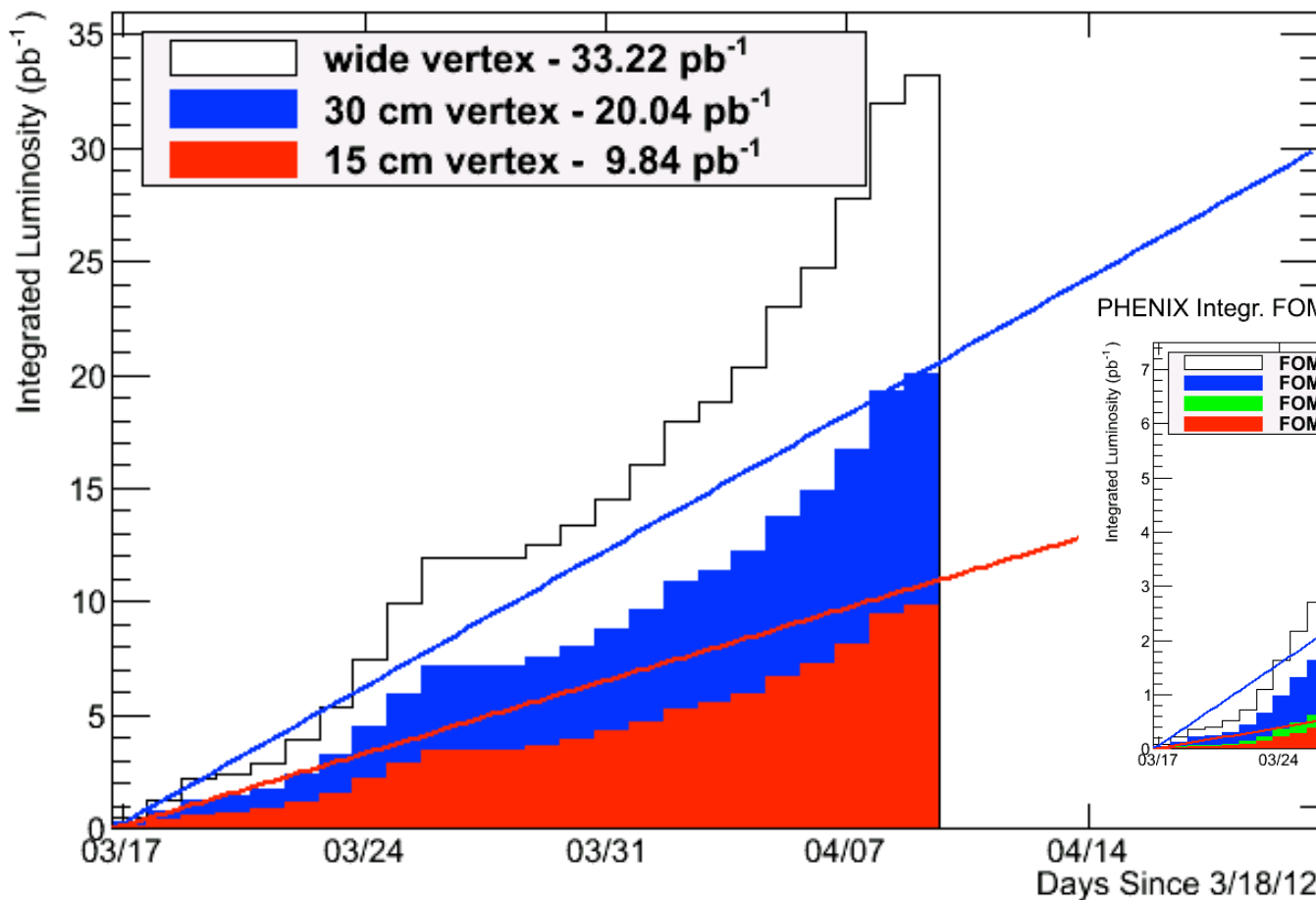
Xiaochun He

- Approaching toward the goal of the sampled luminosity.
- Improvement of W trigger rejection power.
- FVTX has been taking data. Experts are working on evaluating the detector performance and tracking software.
- Fast data production is going seamlessly well, which provides near-real-time feedback to our data taking and triggering improvement.

Integrated Sampled Luminosity

PHENIX Integr. Sampled Lumi vs Day

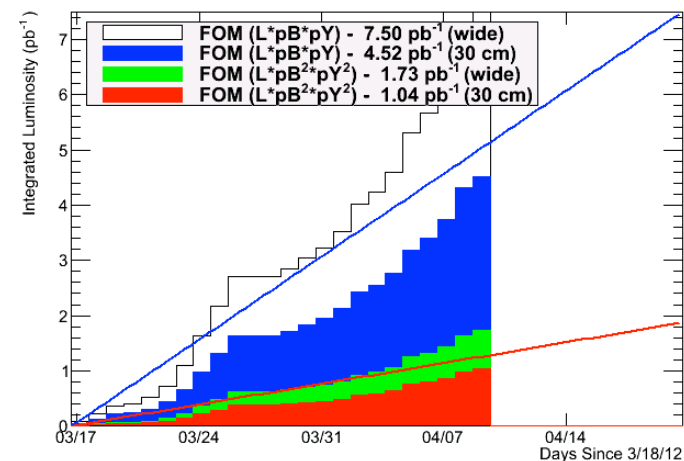
Tue Apr 10 12:04:45 2012



FOM

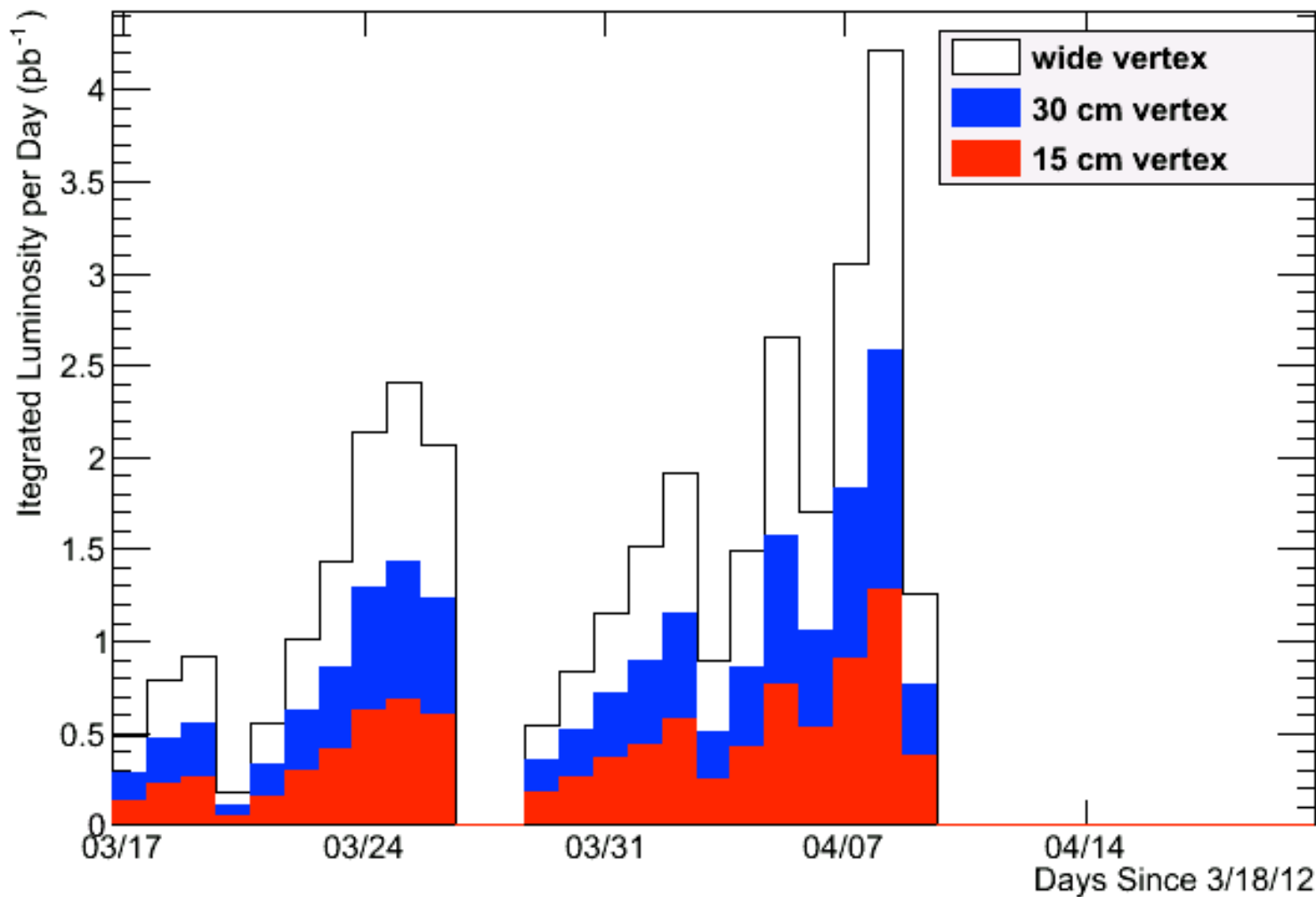
PHENIX Integr. FOM vs Day

Tue Apr 10 12:04:45 2012



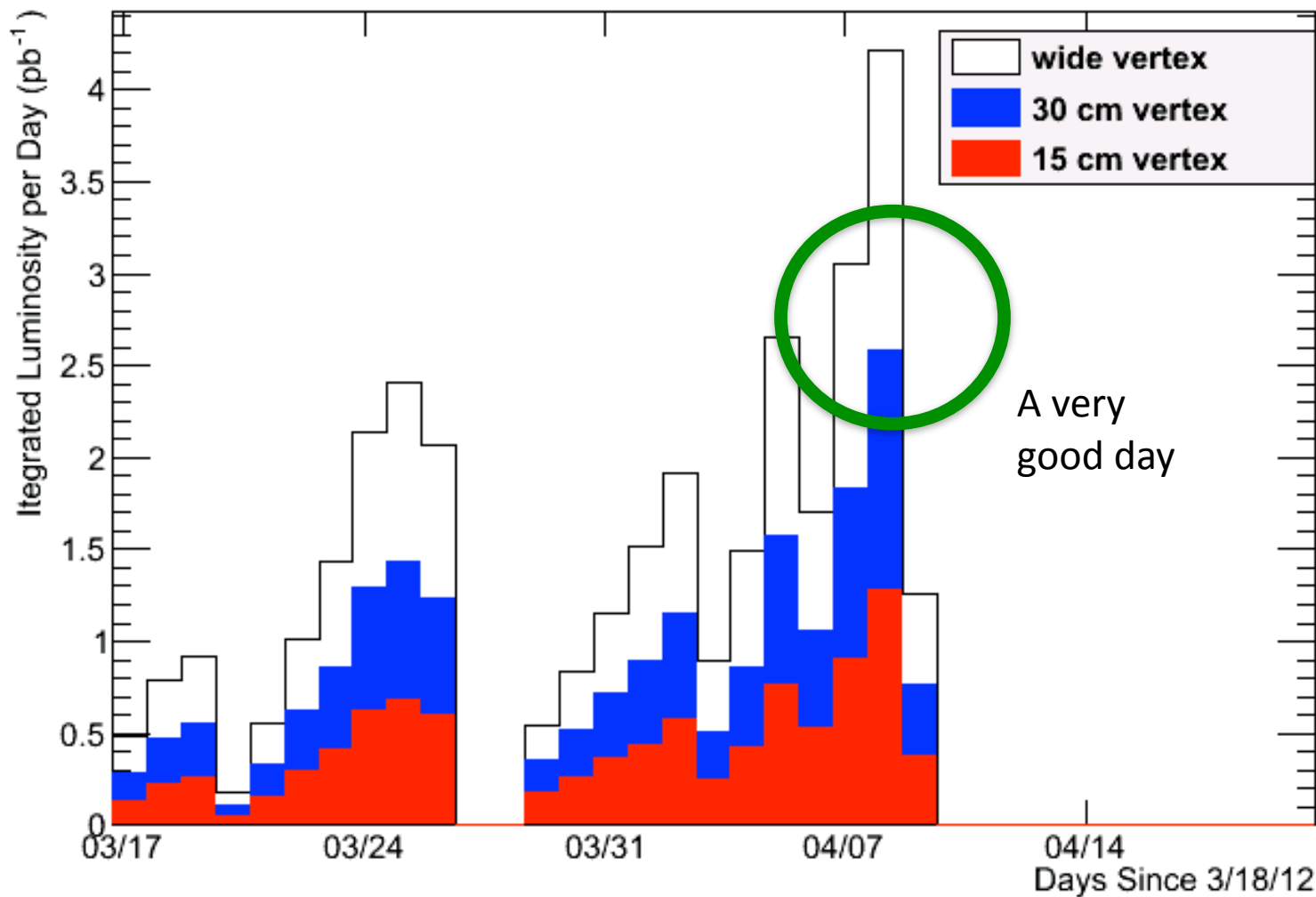
Daily Sampled Luminosity

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

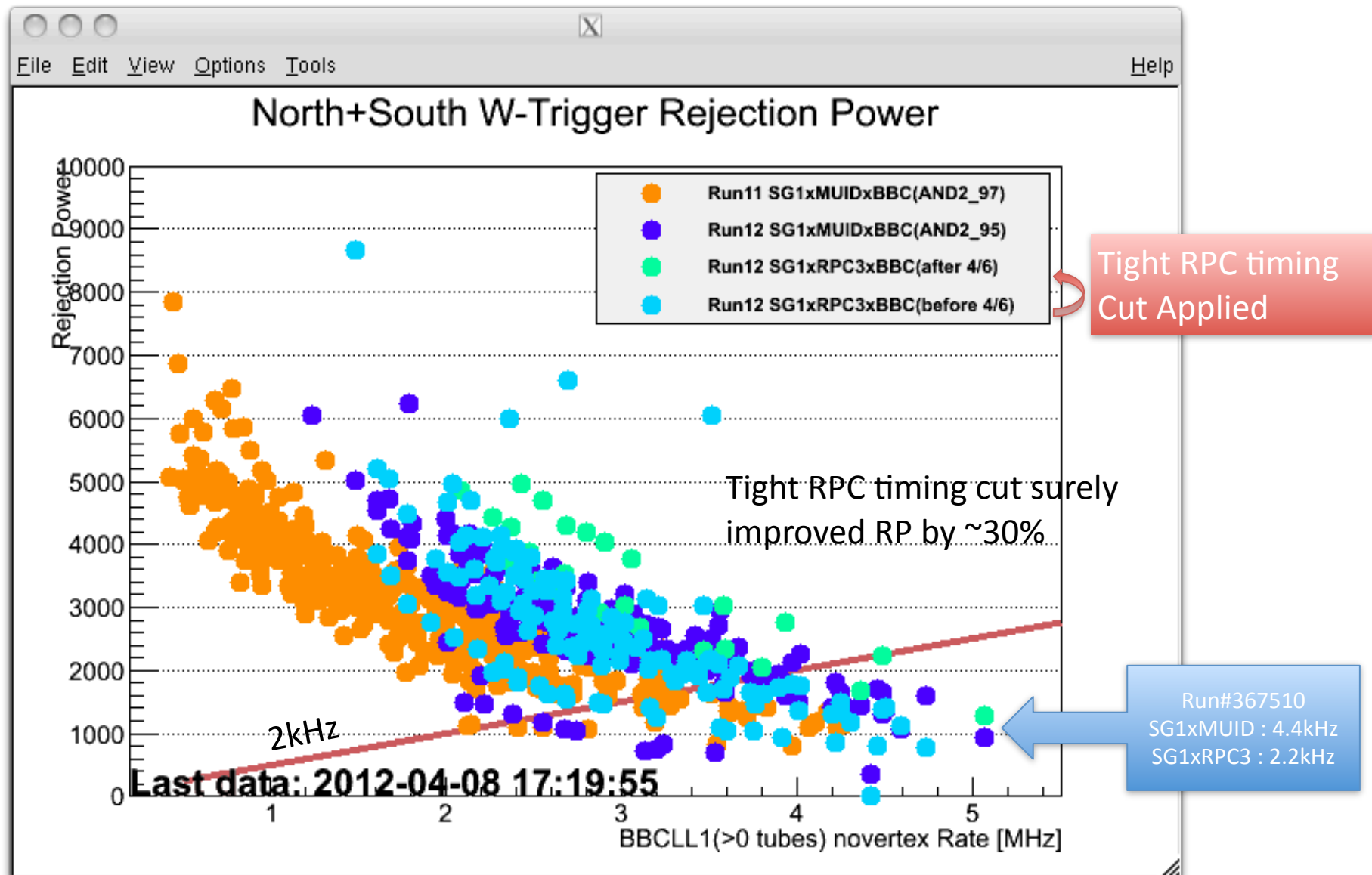


Daily Sampled Luminosity

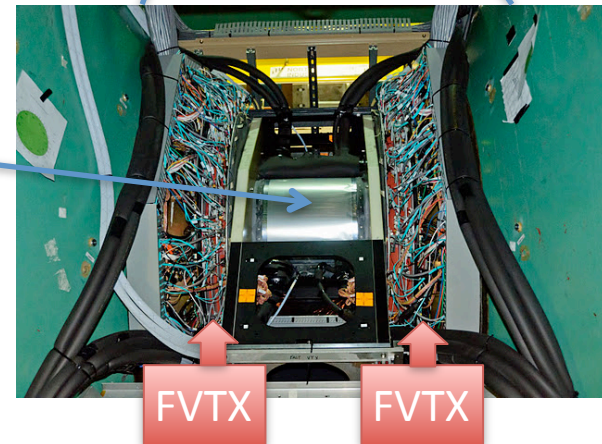
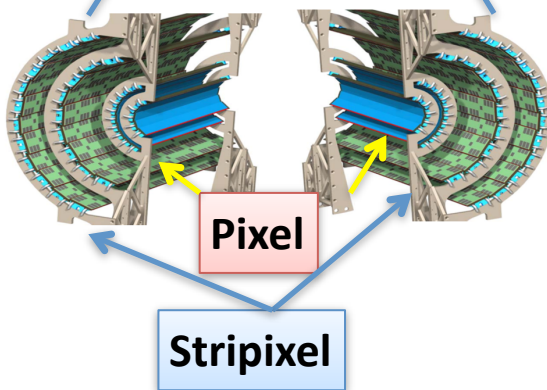
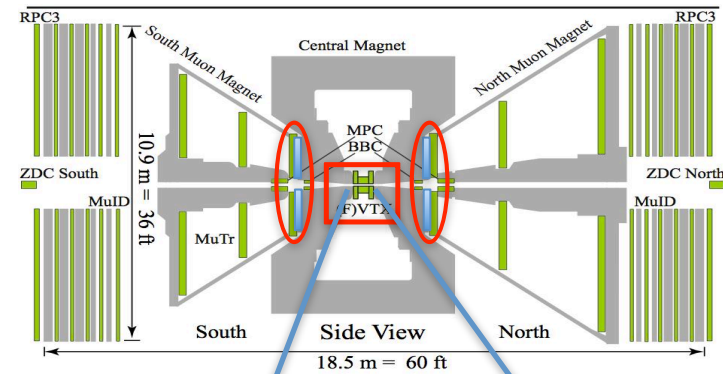
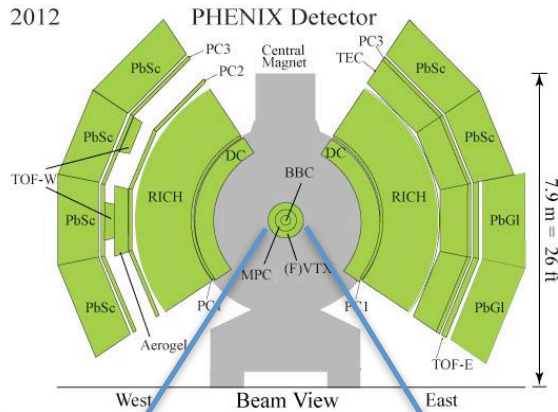
PHENIX Integr. Sampled Lumi/Day vs Day ue Apr 10 12:04:45 2012



Improvement of W Trigger Rejection Power

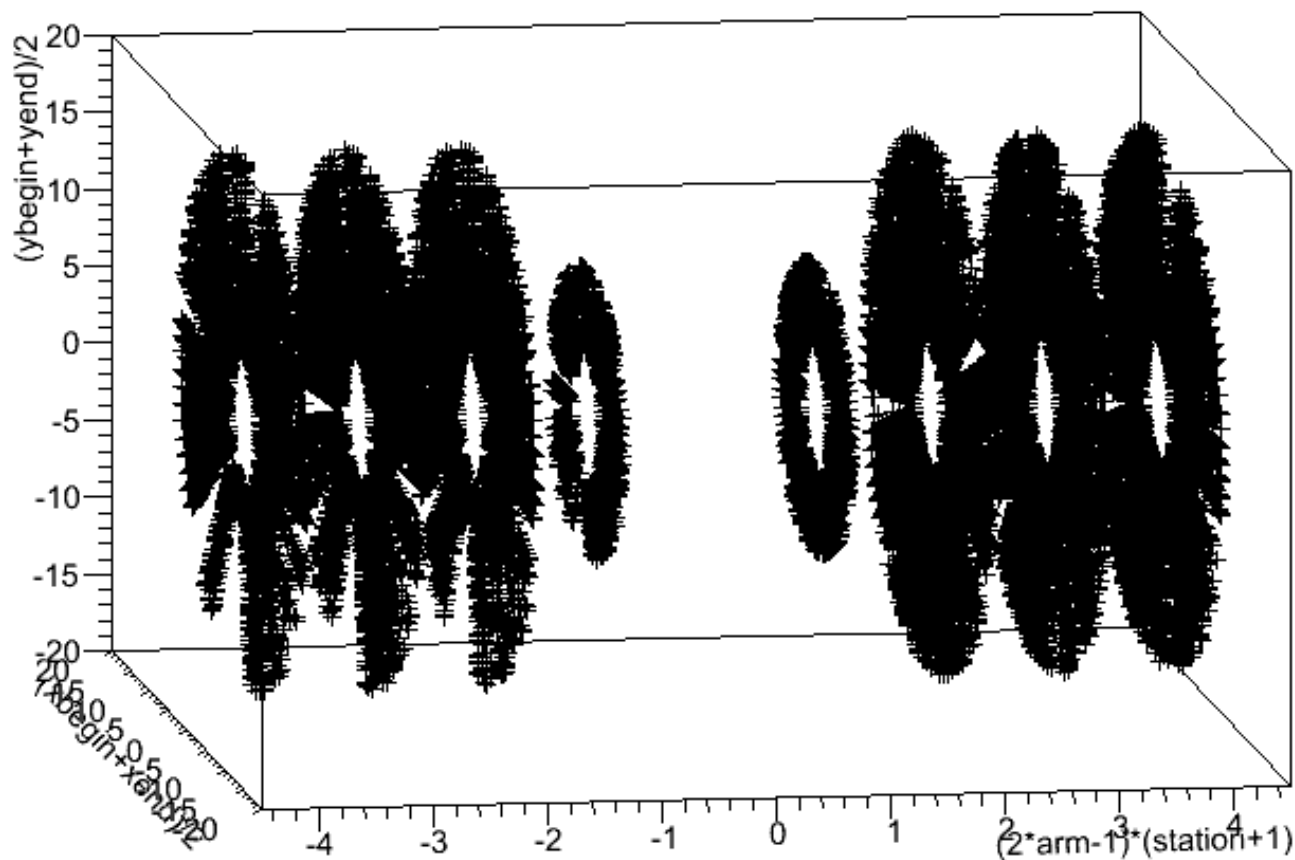


We have been taking data with FVTX since March 21. Thermocouple readings are recorded and safety system is in place and fully operational.

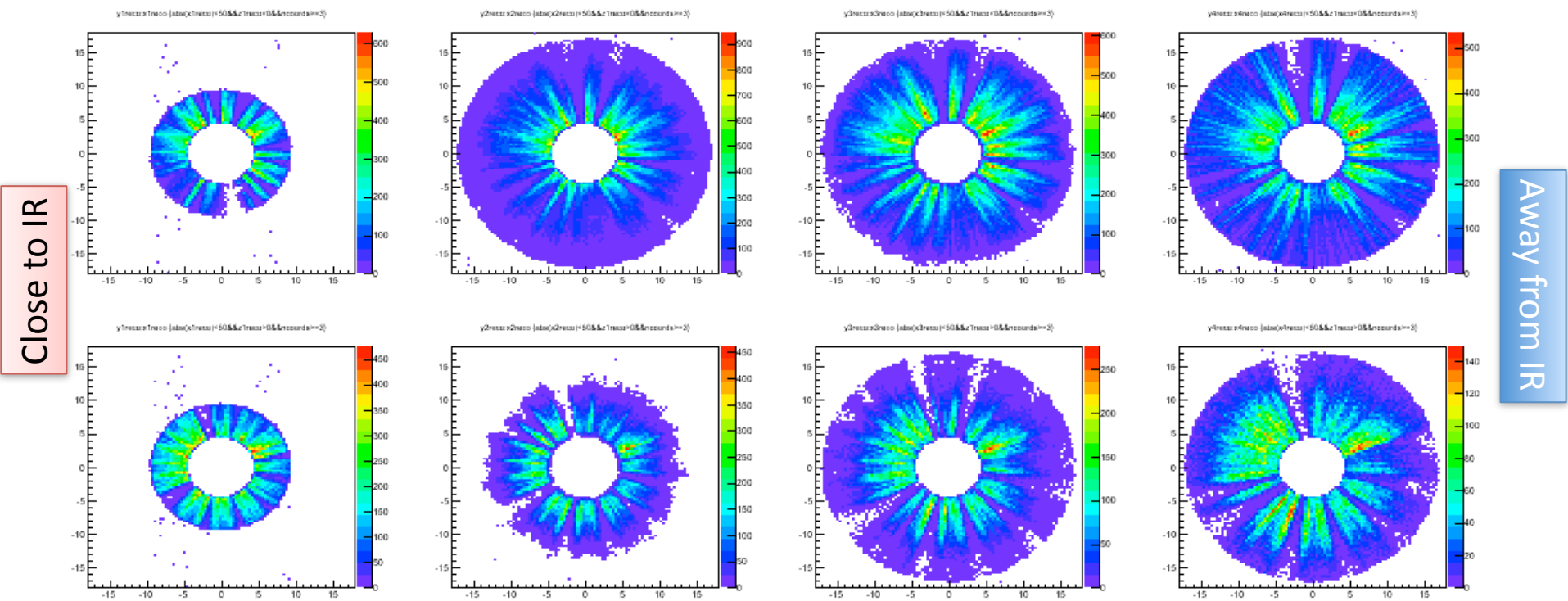


3D Display (Raw Hits)

$$(y_{begin}+y_{end})/2:(x_{begin}+x_{end})/2:(2*arm-1)*(station+1)$$

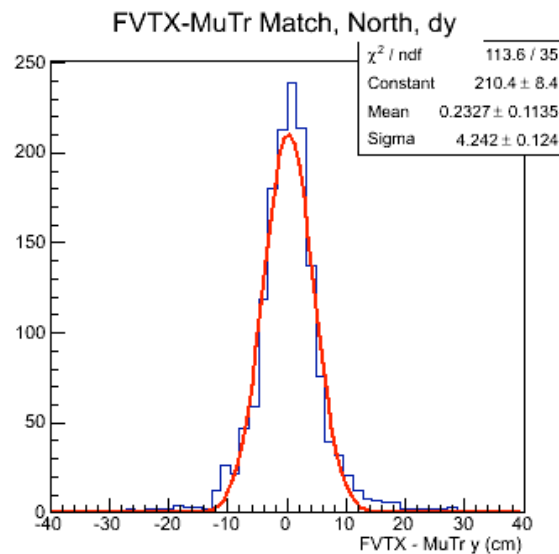
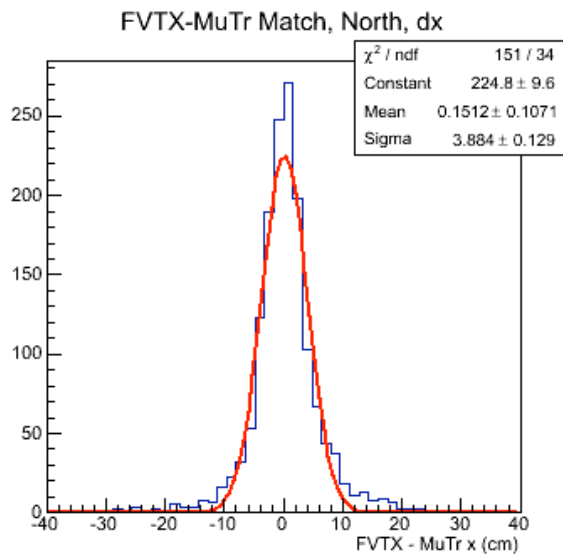
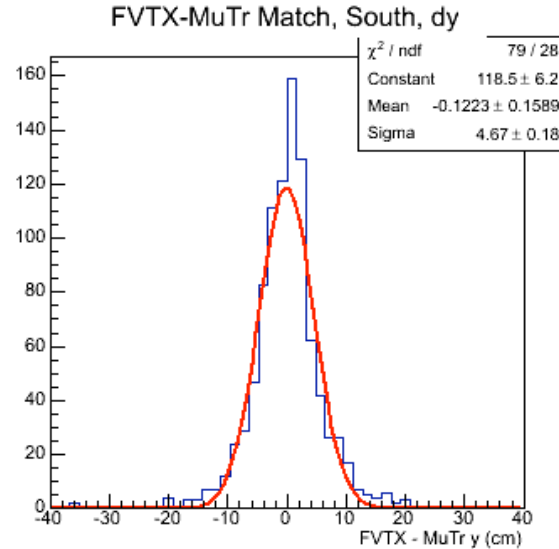
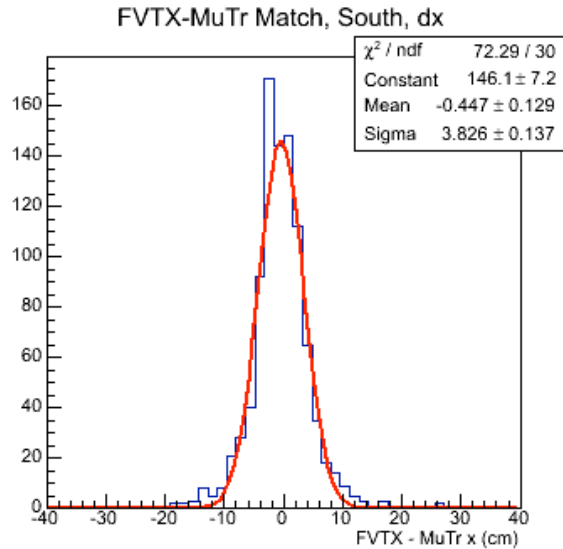


Radio Graph (Run 365165, 3/21)



The radiographs are made from reconstructed track variables without any cuts

Tracking Match with Existing Muon Tracker



Matched at the last disk, which we already know can be improved quite bit after refining the detector alignment.