

PHENIX Run-12 Status Highlights

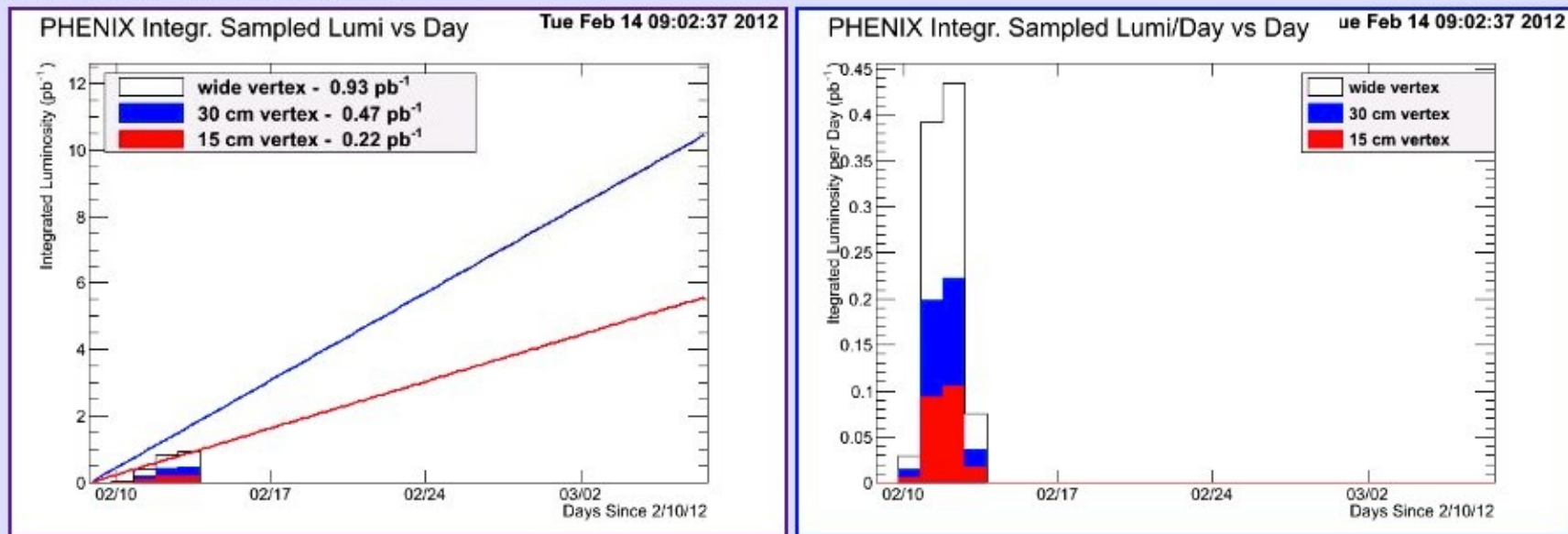
Xiaochun He

- PHENIX has been taking physics data since last Friday (2/10/2012).
- The access on last Thursday was VERY successful and productive. PHENIX vertex detectors are in their data taking position and are working well. (see event display in next slides)
- Commissioning forward vertex detector continues with beam.
- Will use the 4-hour maintenance day tomorrow to check on the background monitors and the RPC gas system in the tunnel area (to be a controlled access); other routine maintenance work in the PHENIX IR area.

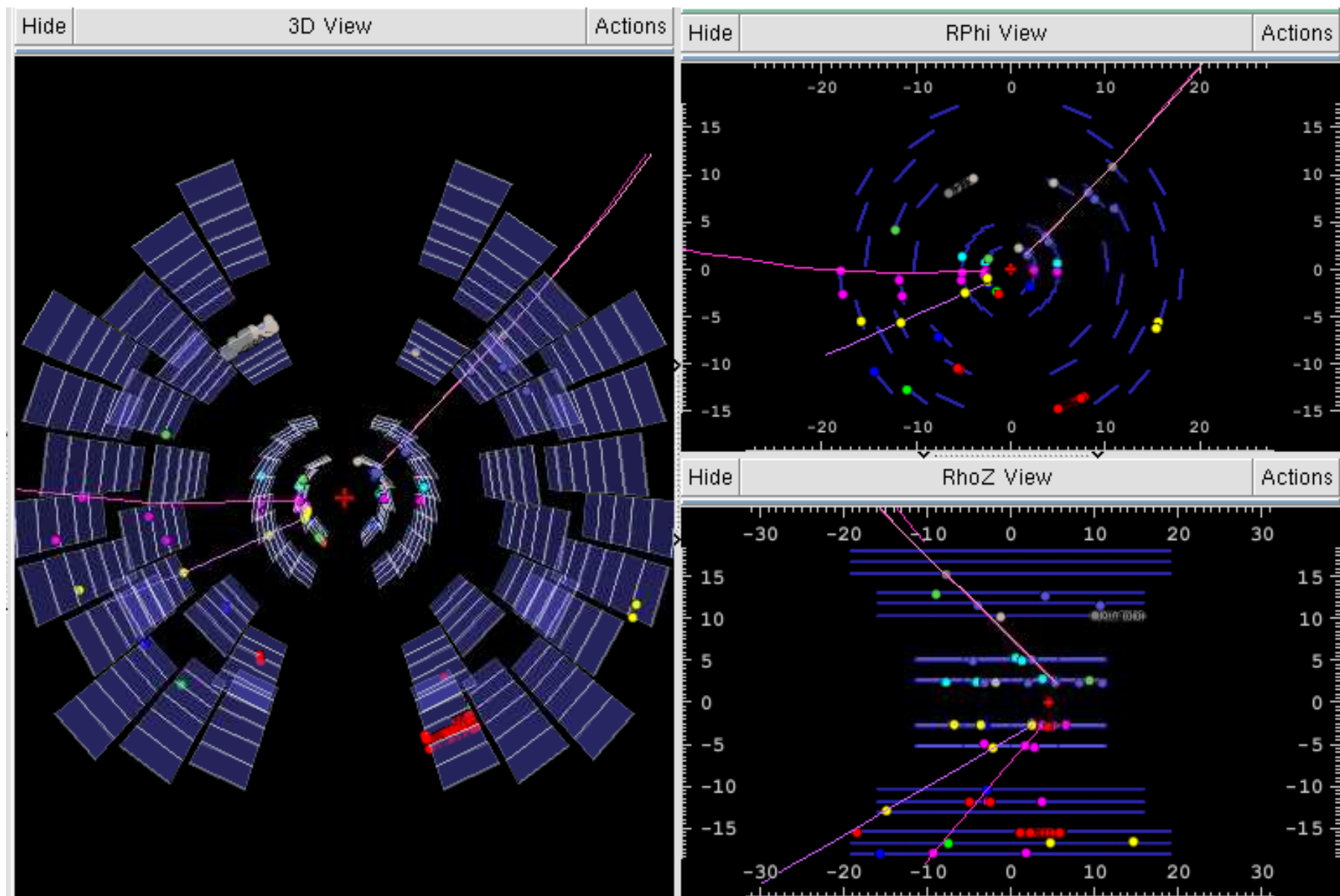
PHENIX Luminosity Monitoring

PHENIX Luminosity Accumulation - Run12 200 GeV p+p

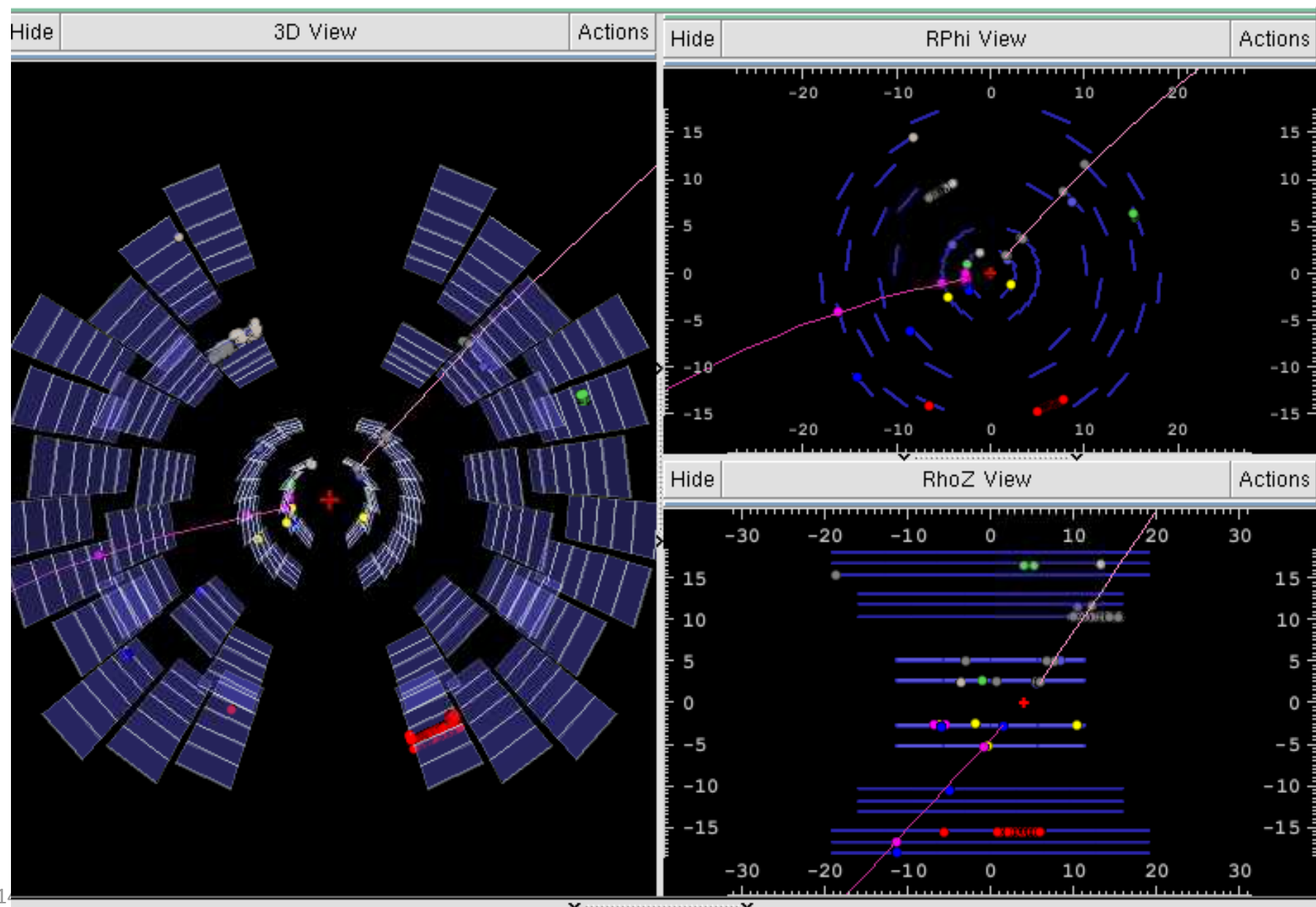
Run12 200 GeV p+p Luminosity (Updated every 3 hours)
(Time-zero is Feb 10th, 2012)



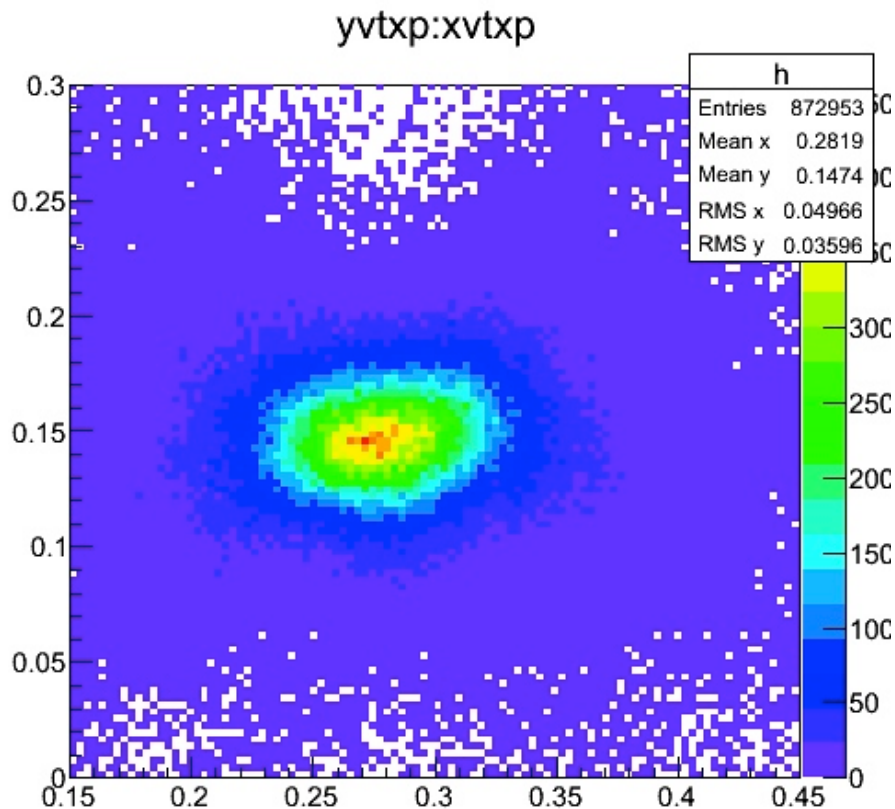
VTX Event Display (1)



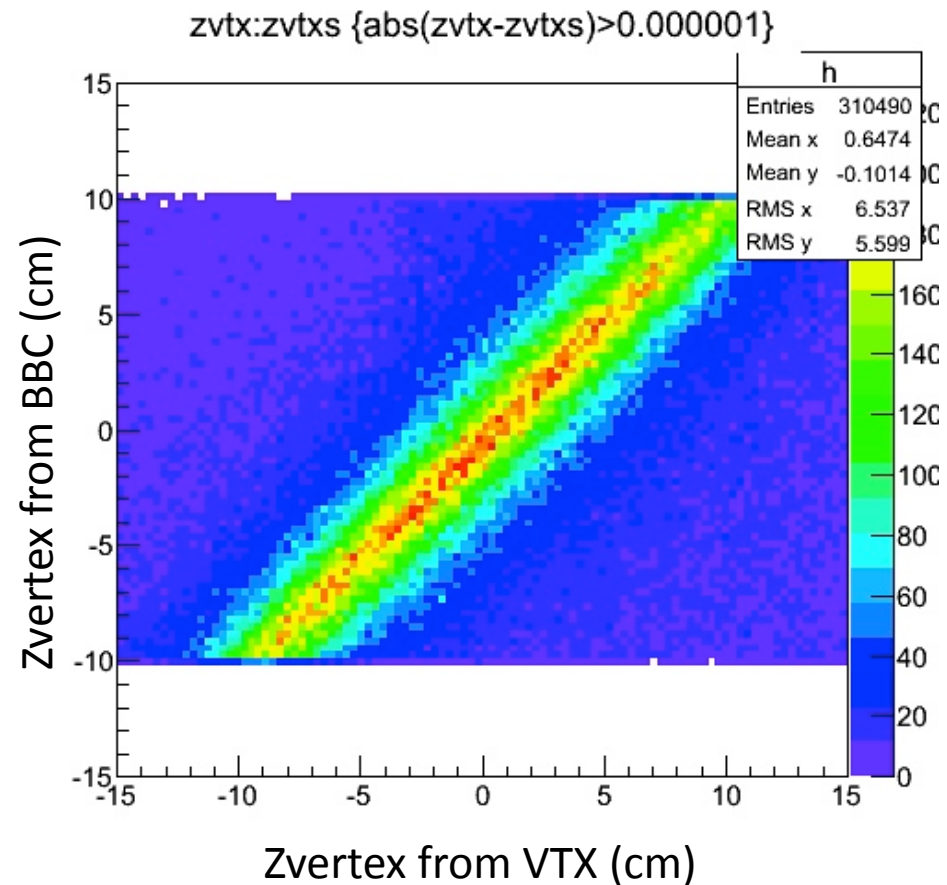
VTX Event Display (2)



Reconstructed collision vertex

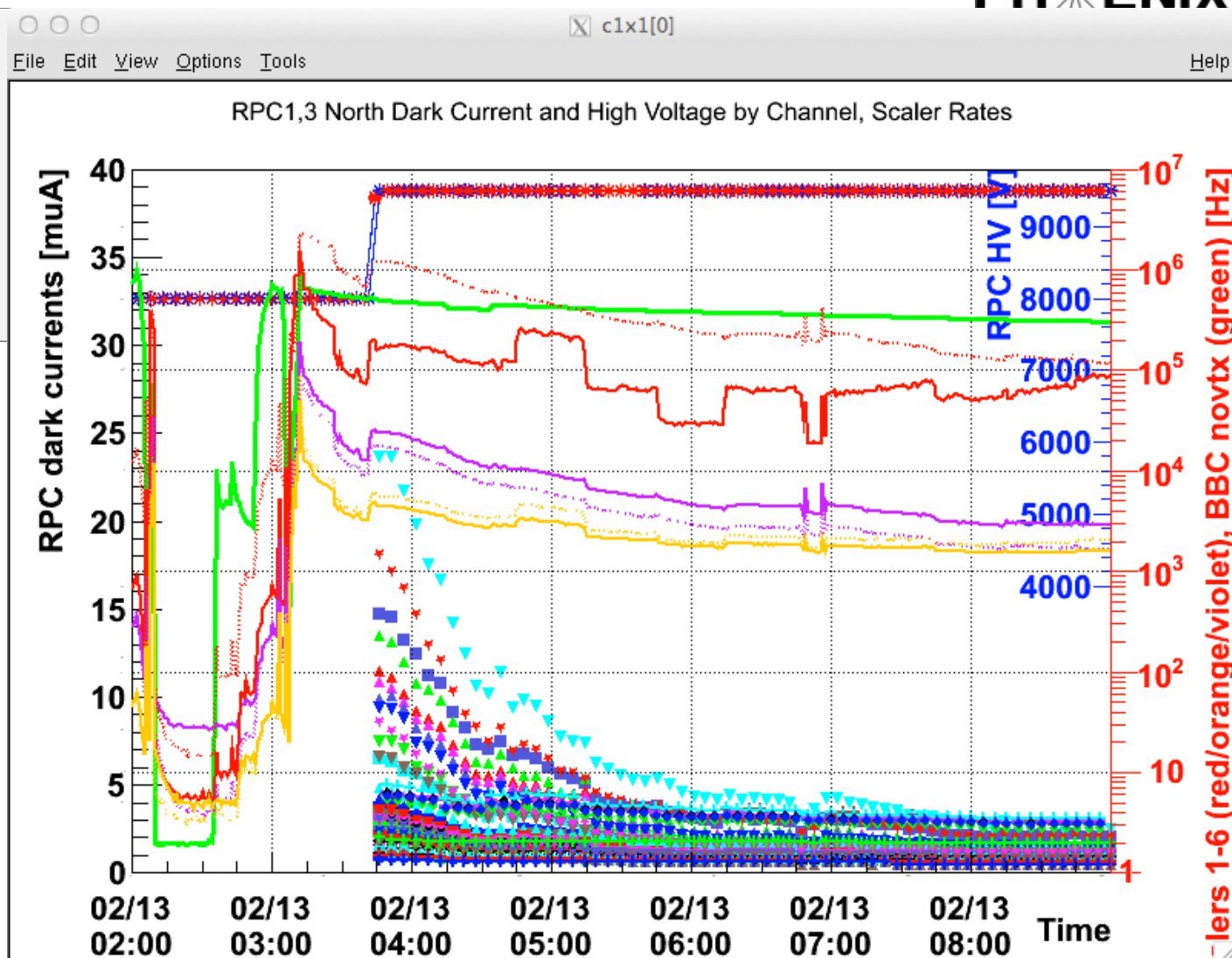
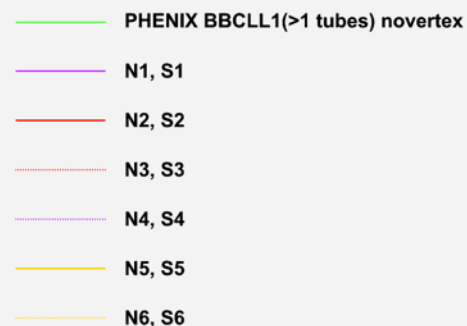
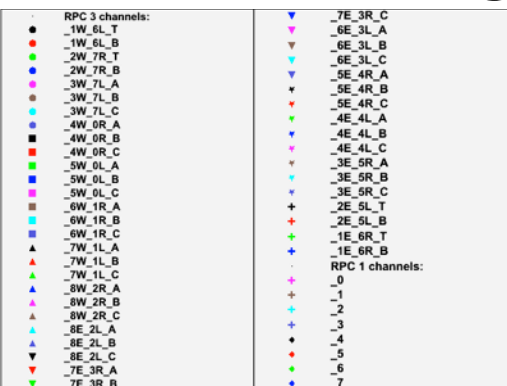


Vertex in X-Y plane
Center $\sim (+2.8\text{mm}, +1.5\text{mm})$



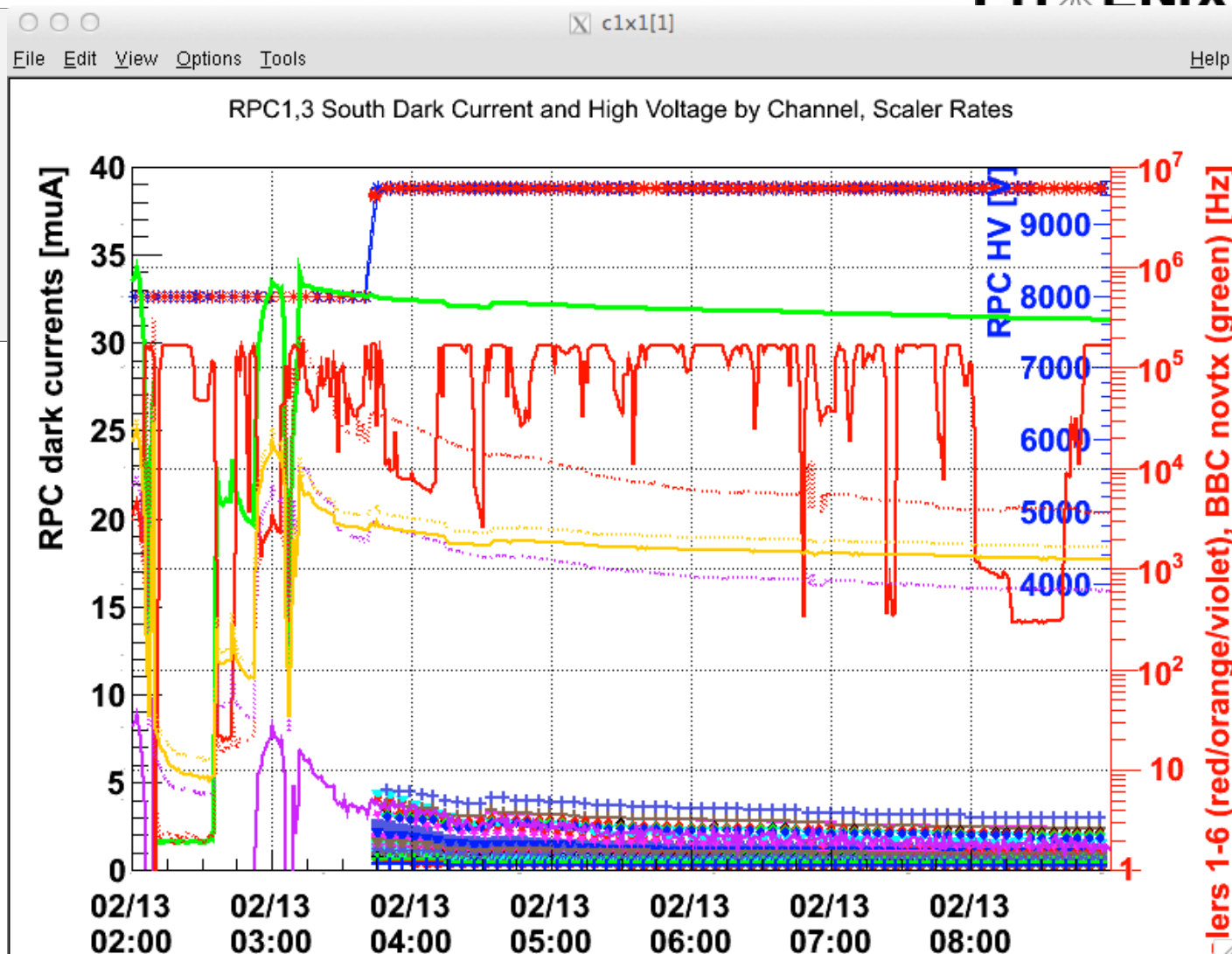
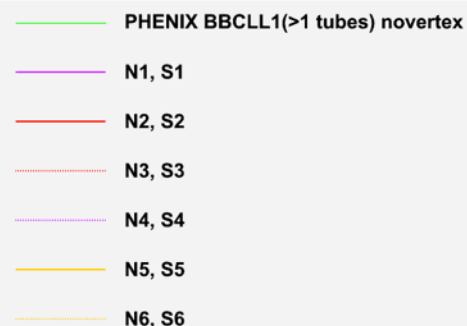
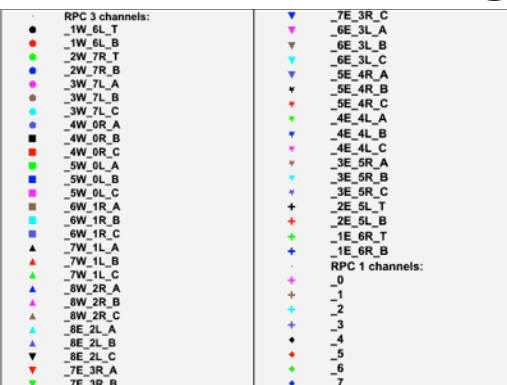
BEAM BACKGROUNDS SEEING IN RPC DETECTORS

RPC Beam Background at North



- Trip current set to 40 μA
- current at $\sim 1 \text{ kHz}/\text{cm}^2$ rate
- Beam background counters are not calibrated
- RPC time-on criteria based at N1, N4, N5, & N6 ($< 10^5 \text{ Hz}$)

RPC Beam Background at South



- Trip current set to 40 μA
- current at $\sim 1 \text{ kHz}/\text{cm}^2$ rate
- Beam background counters are not calibrated
- RPC time-on criteria based at S1, S4, S5, & S6 ($< 10^5 \text{ Hz}$)