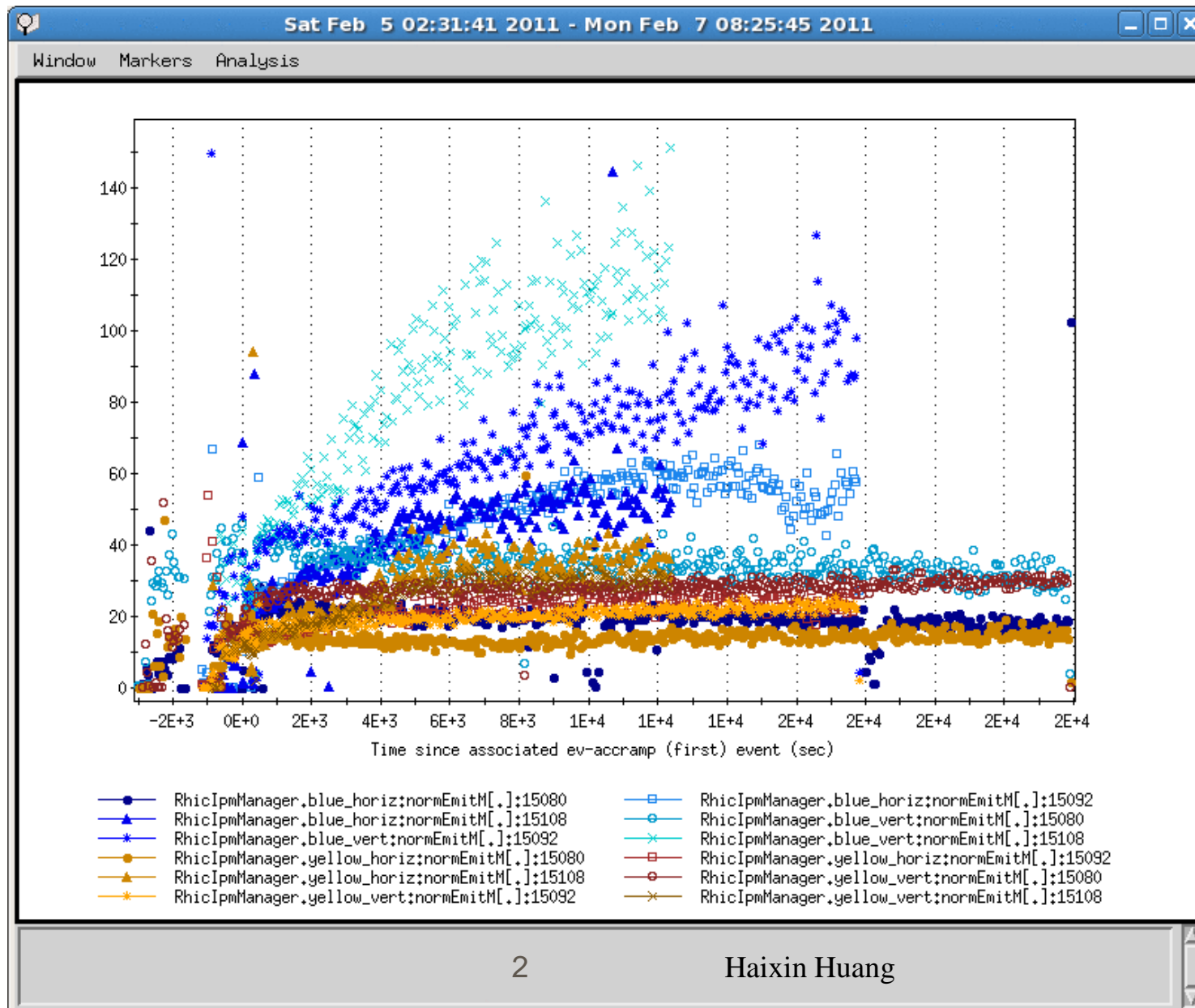


RHIC Status

Haixin Huang

Time Meeting
02/8/2011

Emittance In Three Overnight Stores



Chronicle History of Last Week

Feb. 1 Provide 28x28 collisions overnight per STAR's request. It ended due to P/S failure.

Feb. 2 Provide 65x65 collisions overnight. Some 9MHz cavity commissioning was done.

Feb. 3. Maintenance day and orbit feedback work continued in the evening shift. 76x76 store ended by yi3-tq4 trip.

Feb. 4 109x109 collisions for overnight store. 9MHz cavity development. Collimator setup was retuned.

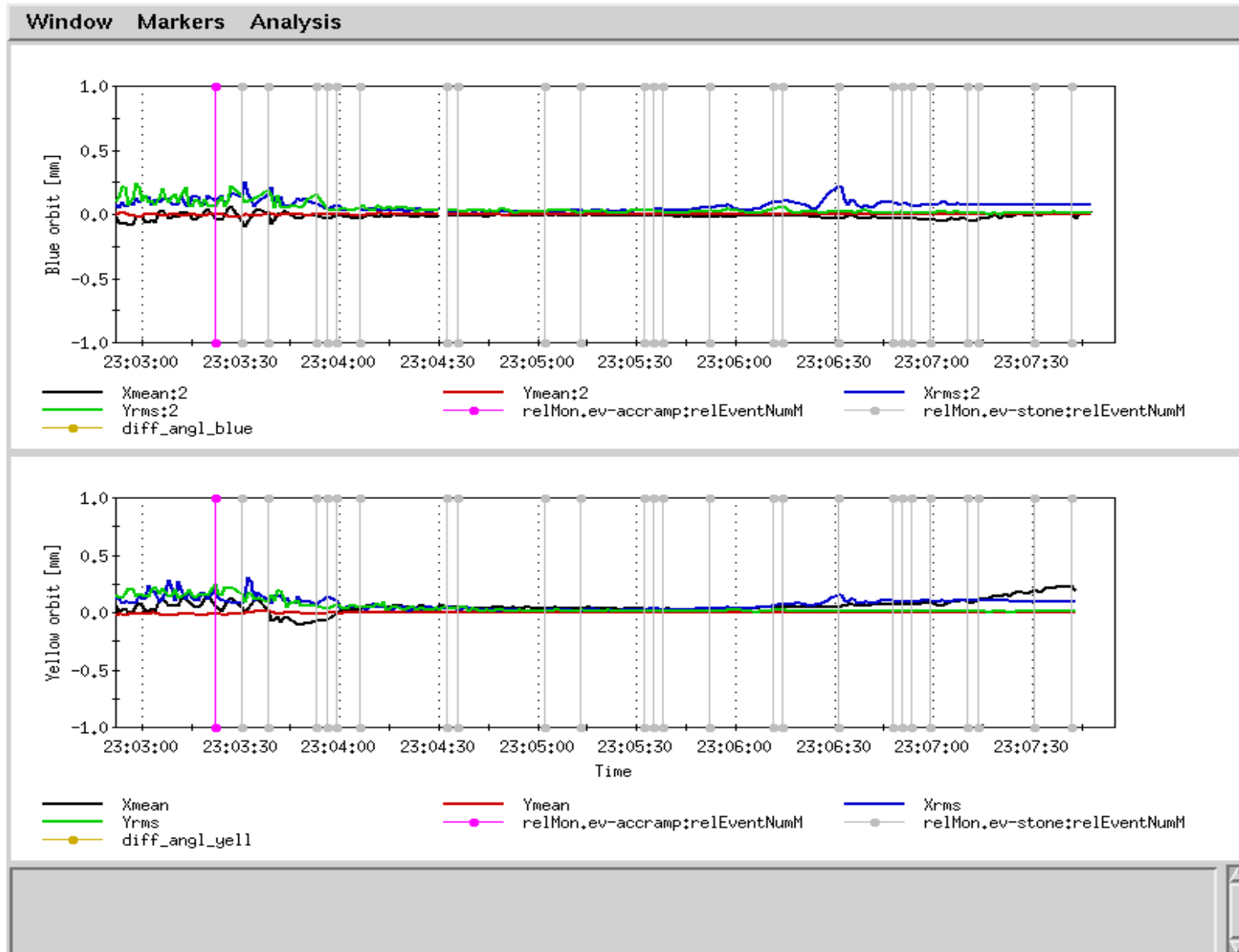
Feb. 5 109x109 collisions for overnight store. New orbit feedback algorithm commissioned but not finished.

Feb. 6 Finished new orbit feedback algorithm development. RMS and mean orbits are within 0.2mm through ramp. 109x109 collisions overnight, but with large blue vertical emittance growth.

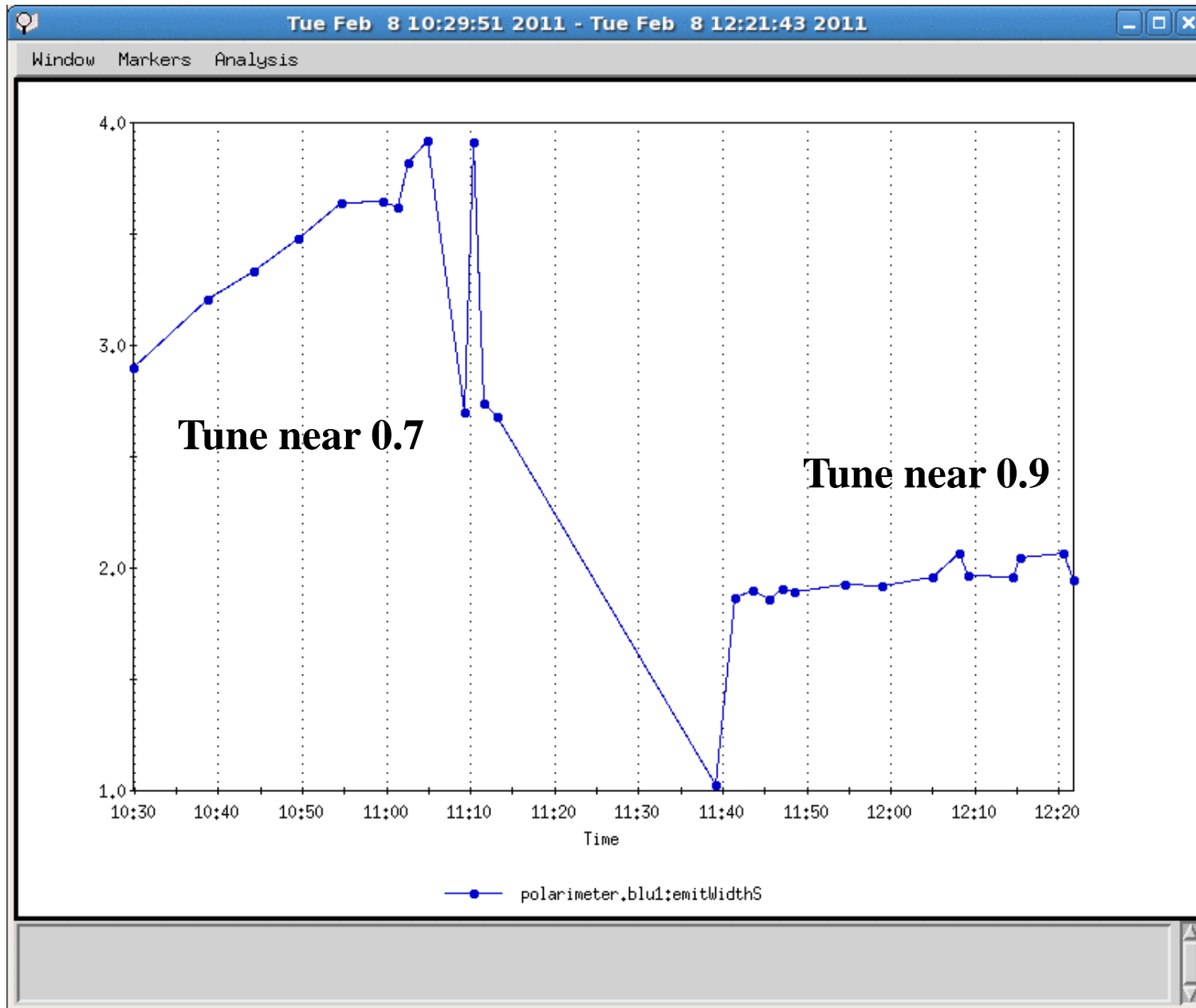
Feb. 7 AGS RF water leak and warm snake problem prevented beam development during day and evening shifts. Struggled overnight to provide a store.

Feb. 8 Searching for the source of the blue emittance growth.

Orbit on Ramp with New Feedback



Blue Vertical Emittance from CNI



Plan for 2/8/2011

- Measure chromaticity on the ramp and correct them.
- Search for the source of blue emittance growth.
- Put a store of $10^9 \times 10^9$ for experiments
- Increase bunch intensity with steps.