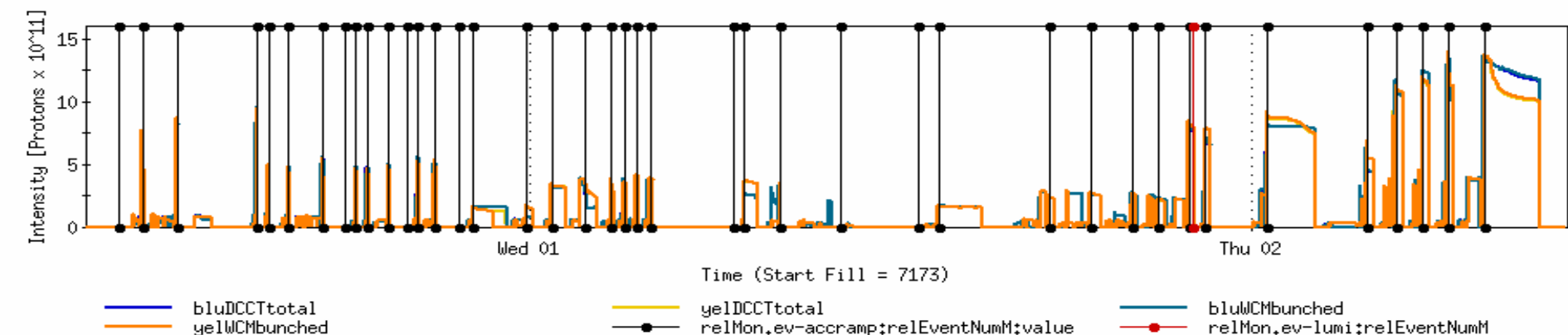
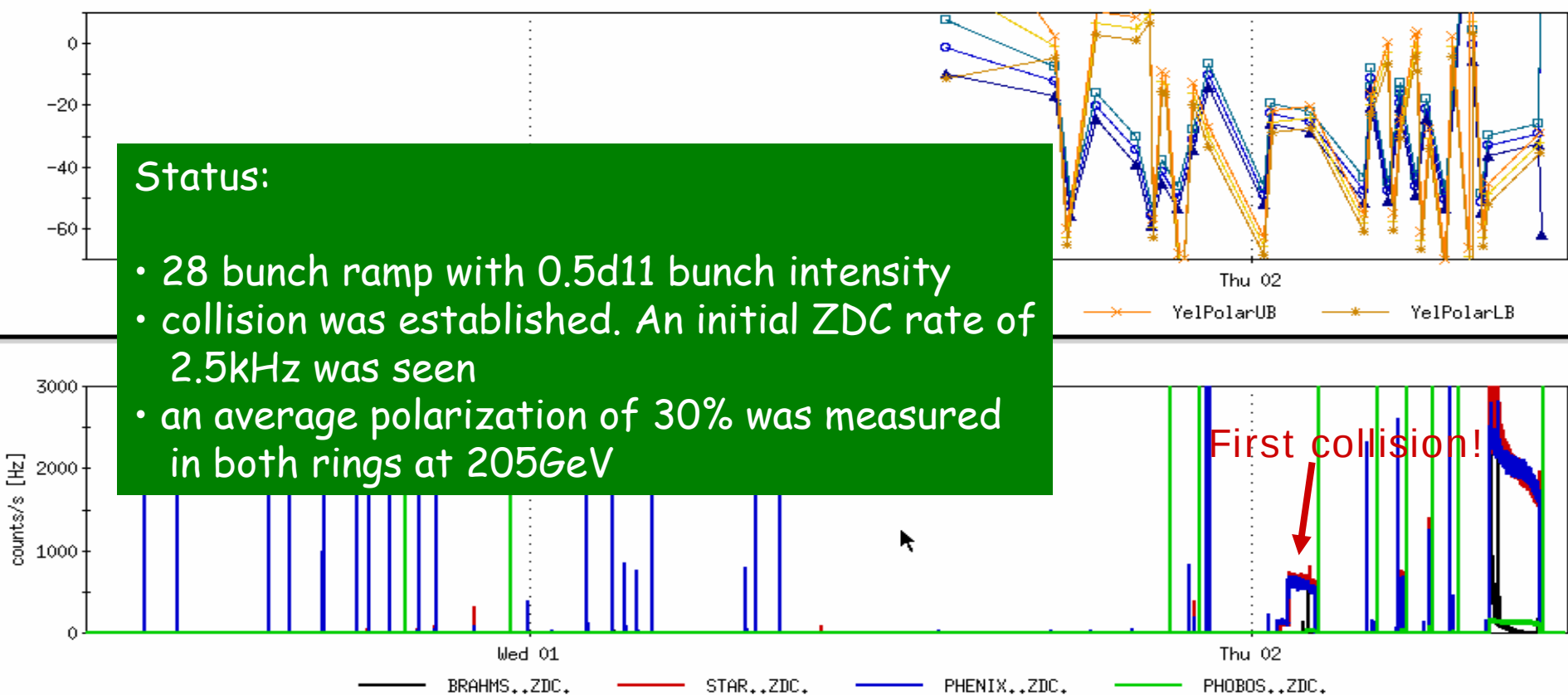


RHIC pp 205 GeV Development Status

<http://www.agsrhichome.bnl.gov/AP/Spin2005/>

Status:

- 28 bunch ramp with 0.5d11 bunch intensity
- collision was established. An initial ZDC rate of 2.5kHz was seen
- an average polarization of 30% was measured in both rings at 205GeV



May 31, 2005

RHIC Weekly Meeting
BNL, Upton

Things are done

- ❑ Tailor the sequencer for pp22, no rotator ramp: Todd
- ❑ Fixed the first part of the ramp (inj – 100 GeV): Todd, Steve
- ❑ Modified the slow factor for pp22 so that we can have faster down ramp: George Ganetis
- ❑ Fixed model orbit and restored the separation bumps: Vadim
- ❑ [Orbit correction along the ramp](#): Vadim
- ❑ [Yellow ramp coupling correction](#): Yun
- ❑ Tunes/chromaticity improved
- ❑ CNI polarimeter for 205GeV: Sandro
- ❑ 28 bunches ramp
- ❑ Cogging + Steering: Todd + operations and many others

Plan

- 205 GeV development: May 31 0800 – June 3 0800
 - Finish collision setup with 56x56 stores
 - Polarization ramp measurement to identify the location of depolarization resonances
 - Provide production stores for experiments later in the afternoon till tomorrow morning
 - Parasitically study the depolarization resonance strength dependence on the orbit distortion from ramp to ramp
 - Monitor the polarization lifetime across the store
 - Vernier scans
 - Parasitic polarimeter physics studies at 205GeV

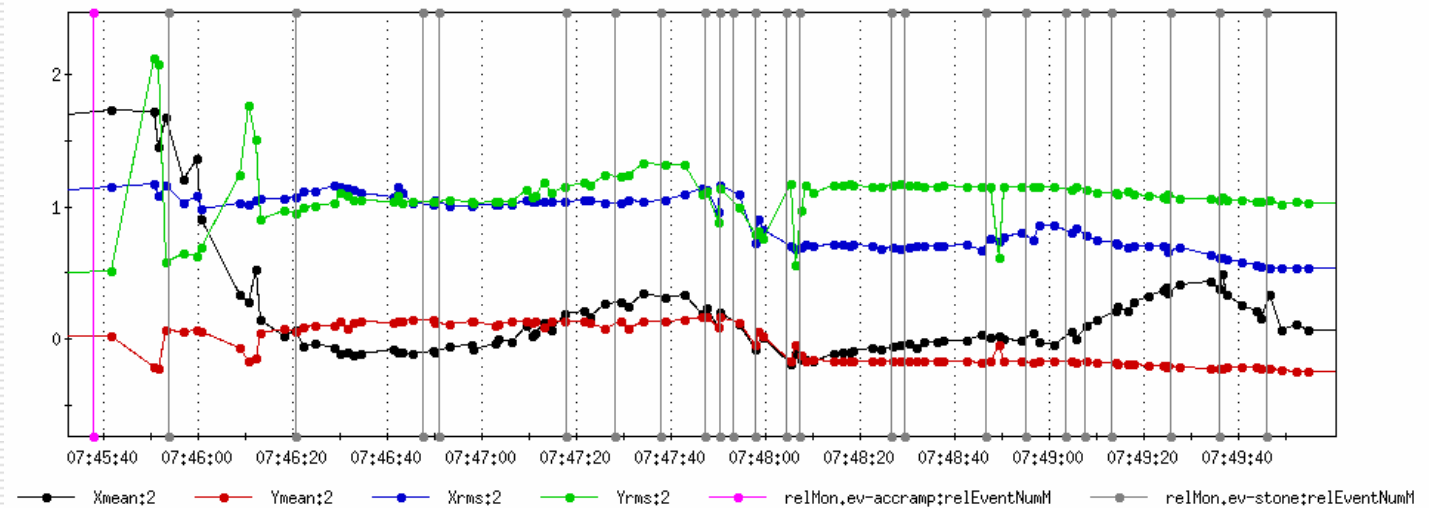
- Back to 100 GeV Physics program on Friday
 - 62 or more bunches

Plan for accommodate PHOBOS 200GeV collision

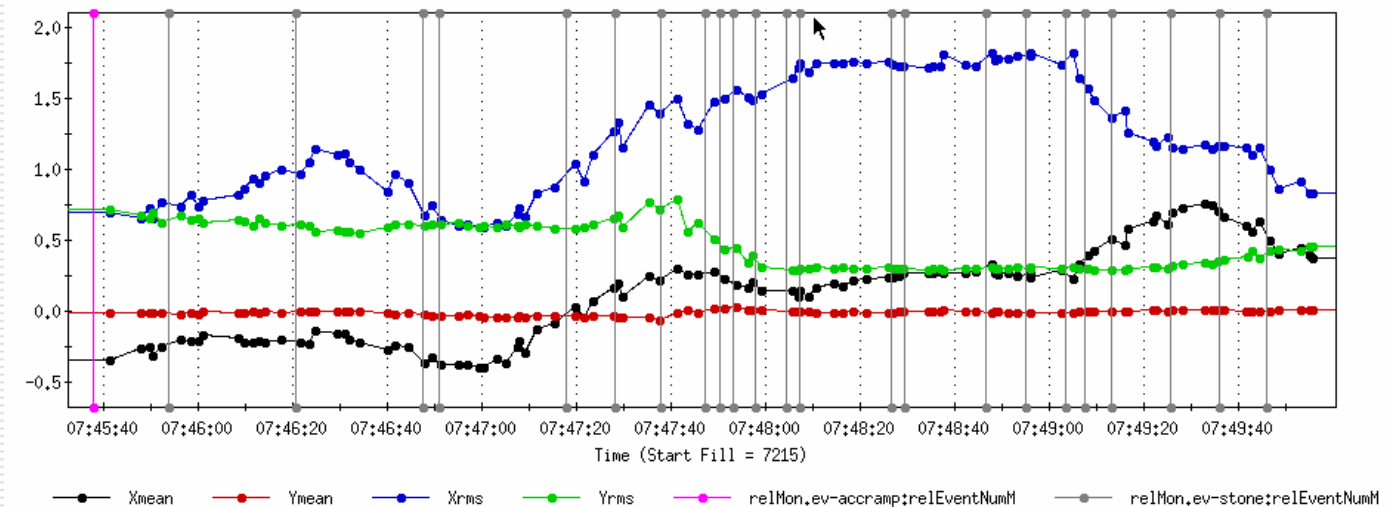
- ❑ Turn on PHOBOS collision at the end of a production store to examine the effect of an additional collision
- ❑ If it has negative effects, turn off Brahms to recover the beam lifetime as well as the luminosity lifetime
- ❑ Confirm the above configuration at the end of the following production store
- ❑ Provide collisions for PHOBOS 3 hours from the beginning of the store with the above configuration

Orbit along the ramp

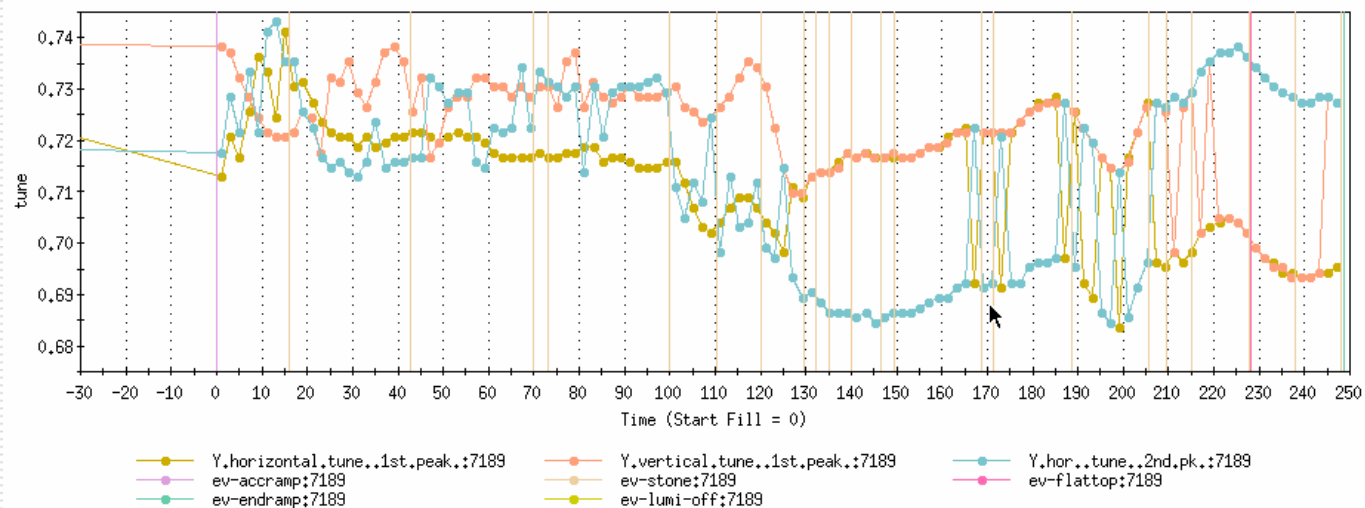
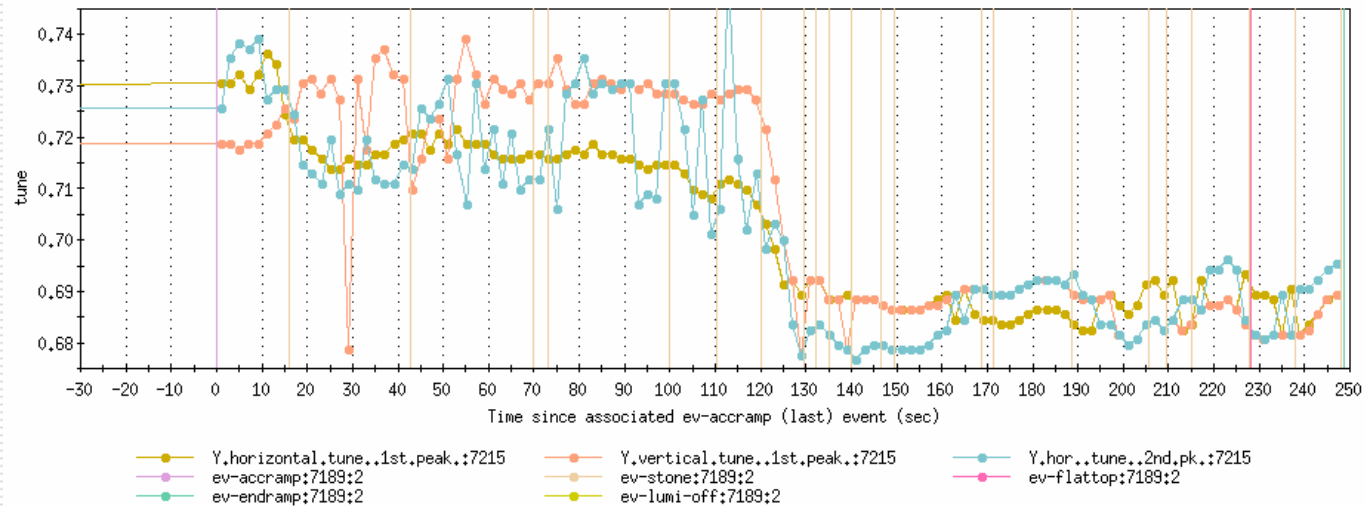
Yellow



Blue

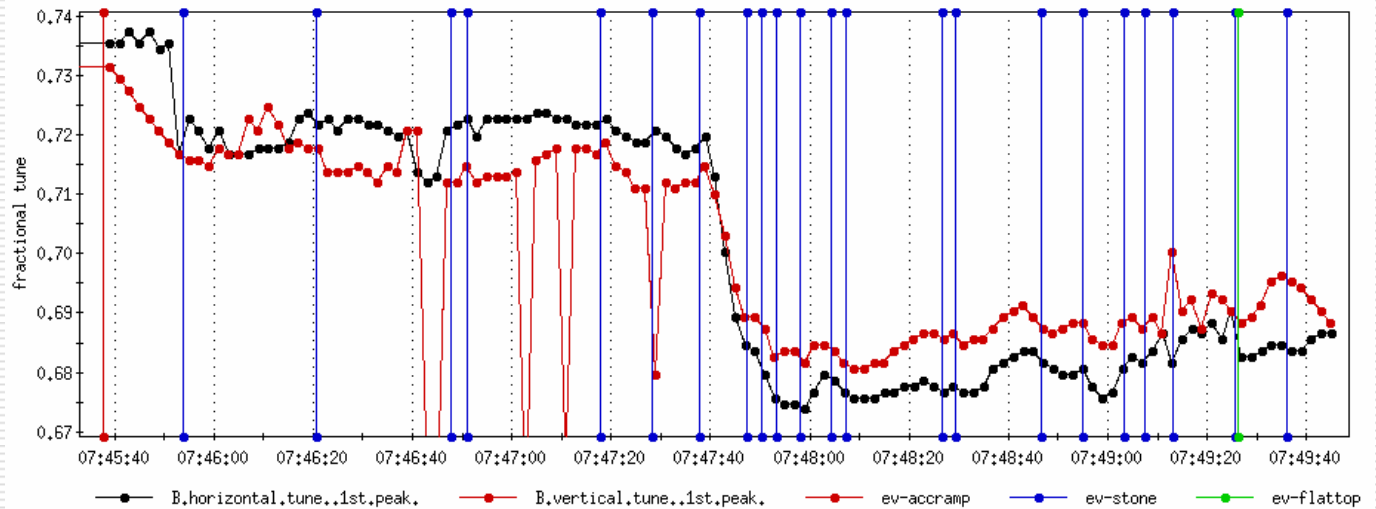


Decoupling Yellow during the ramp



Tunes along ramp

Blue



Yellow

