## **AGS/Booster PP Status**

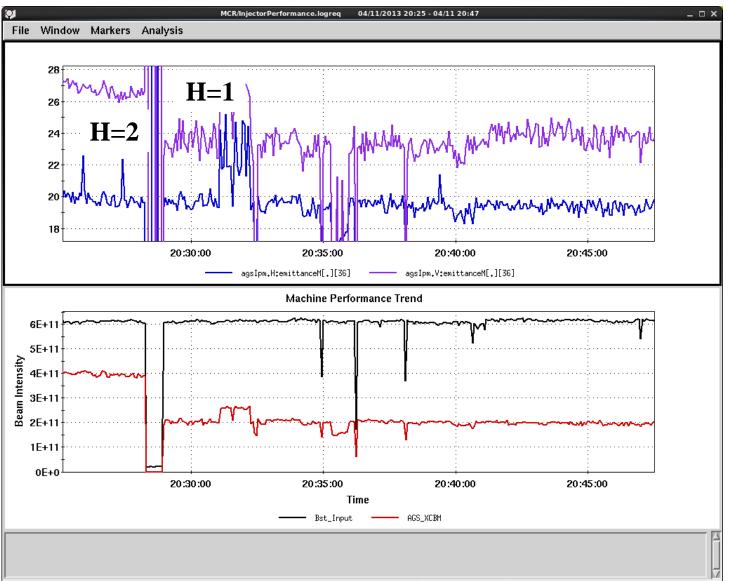
Haixin Huang

April 16, 2013 Time Meeting

## **Status**

- Pulse power supply group fixed G10. Improved the AtR efficiency after April 8.
- AGS continued to provide near 70% polarization for RHIC injection.
- The Booster h=2 was tested in the Booster with higher bunch intensity (near 2\*10<sup>11</sup>, 6\*10<sup>11</sup> Booster input ). Lower polarization with h=2 (66.2+-0.9) than h=1 (71.4+-1.1), as we sacrificed on the vertical scraping in the Booster. Vertical emittance is about 10% higher in h=2 case, but no difference seen in horizontal. Longitudinal remittance is reduced from1.04 eV-s to 0.77eV-s.
- Longitudinal emittance increased from .63eV-s to 1.04eV-s on the ramp. RF group removed the bunch oscillation at injection. Keith tuned transition jump.
- With modest quad pumping, the bunch length at AGS extraction can be reduced to 23.7ns from 29ns. We will try that for next RHIC fill.
- There is a plan to do 2.5GeV setup next week (after NSRL operation during day).
  <sup>2</sup> Haixin Huang

## AGS Flattop Remittance for h=2 and h=1



AGS bunch intensity was 2\*10<sup>11</sup>. Different scraping in the Booster. Vertical remittance is larger with h=2.