

AGS/Booster Status

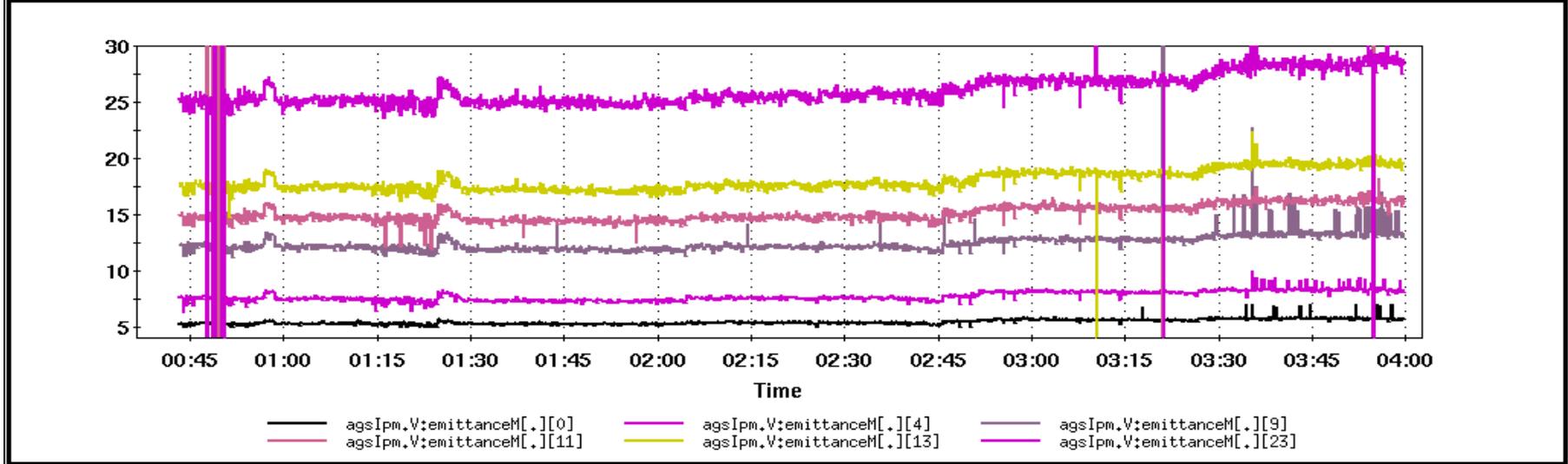
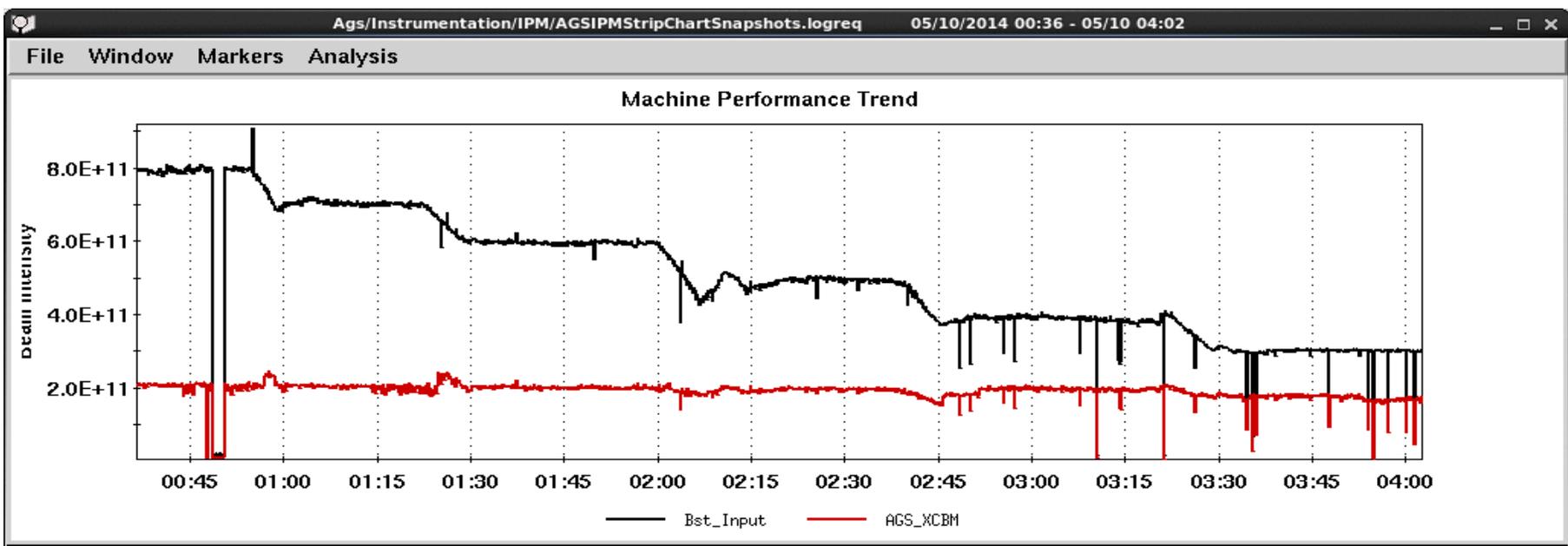
Haixin Huang

May 13, 2014
Time Meeting

Status

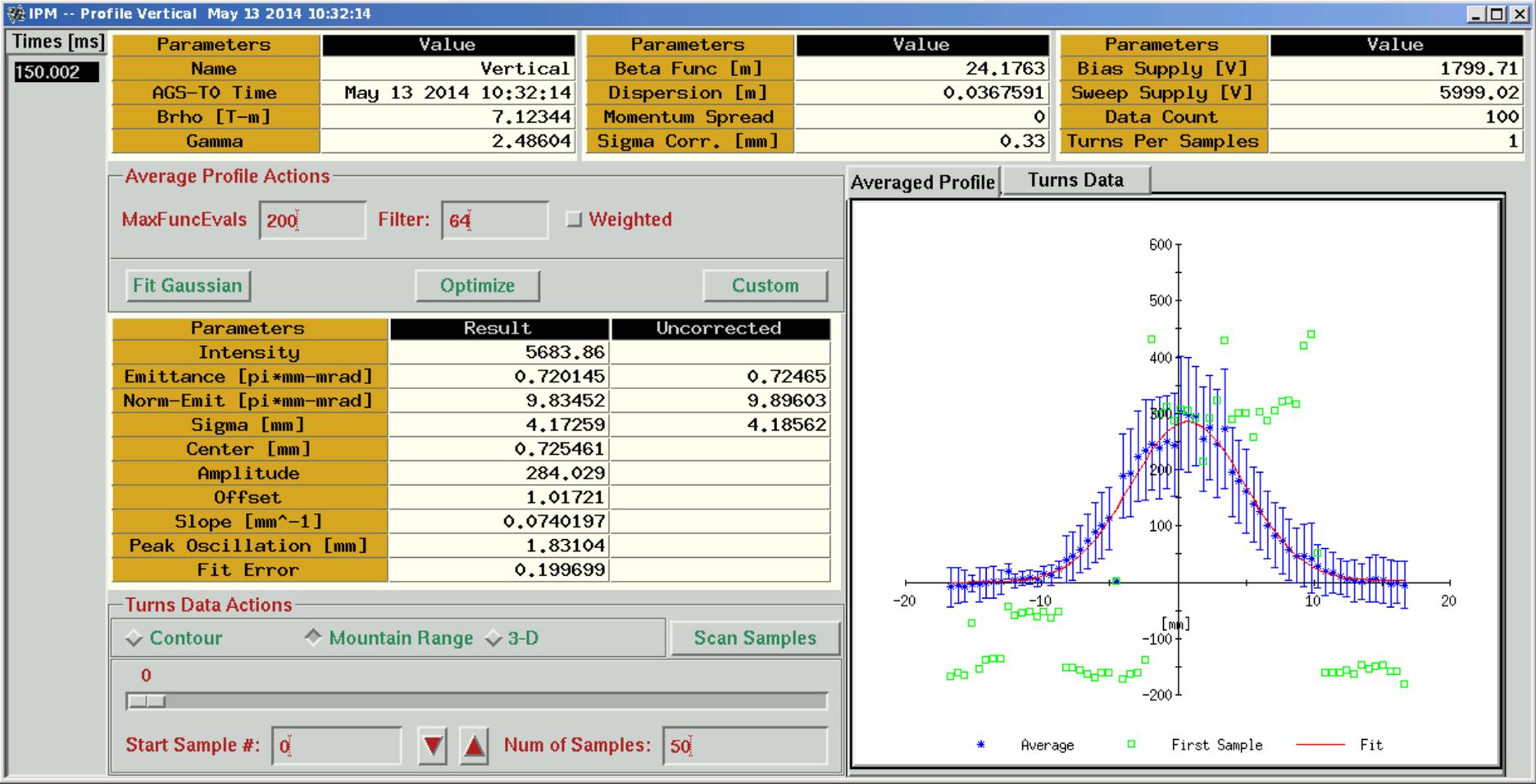
- Higher EBIS input since last Thursday, which resulted higher RHIC fill intensity than last two weeks.
- Further reduction of emittance by changing chromaticity has resulted slightly higher polarization. About 69% has been reached with 2.2×10^{11} bunch intensity.
- Vary Booster input from 4 to 8×10^{11} and maintain the AGS late as 2×10^{11} . Polarization and emittance were measured. There were no difference in the polarization and horizontal emittance, but the vertical emittance is reduced by about 10-15%. Probably source polarization is lower with higher intensity. Will repeat emittance measurement with eIPM.
- Vertical emittance has been measured by the newly installed eIPM.
- This week, we will do more eIPM commissioning, in addition to polarization profile and ramp measurements.
- He3 bunch merge setup next week. NSRL will be off.

Vertical Emittance is 10-15% with 8×10^{11} Input



Running sddsview to view correlated data ...
Time = Sat May 10 01:11:30 2014+285ms, agslpm.V:emittanceM[.] [23] = 24.8754
Time = Sat May 10 03:48:22 2014+484ms, agslpm.V:emittanceM[.] [23] = 28.388

First eIPM Vertical Emittance Measured at AGS Injection with Proton Beam



Done by Roger Connolly, Steve Tepikian, Rob Michnoff, Steve Jao and many others.