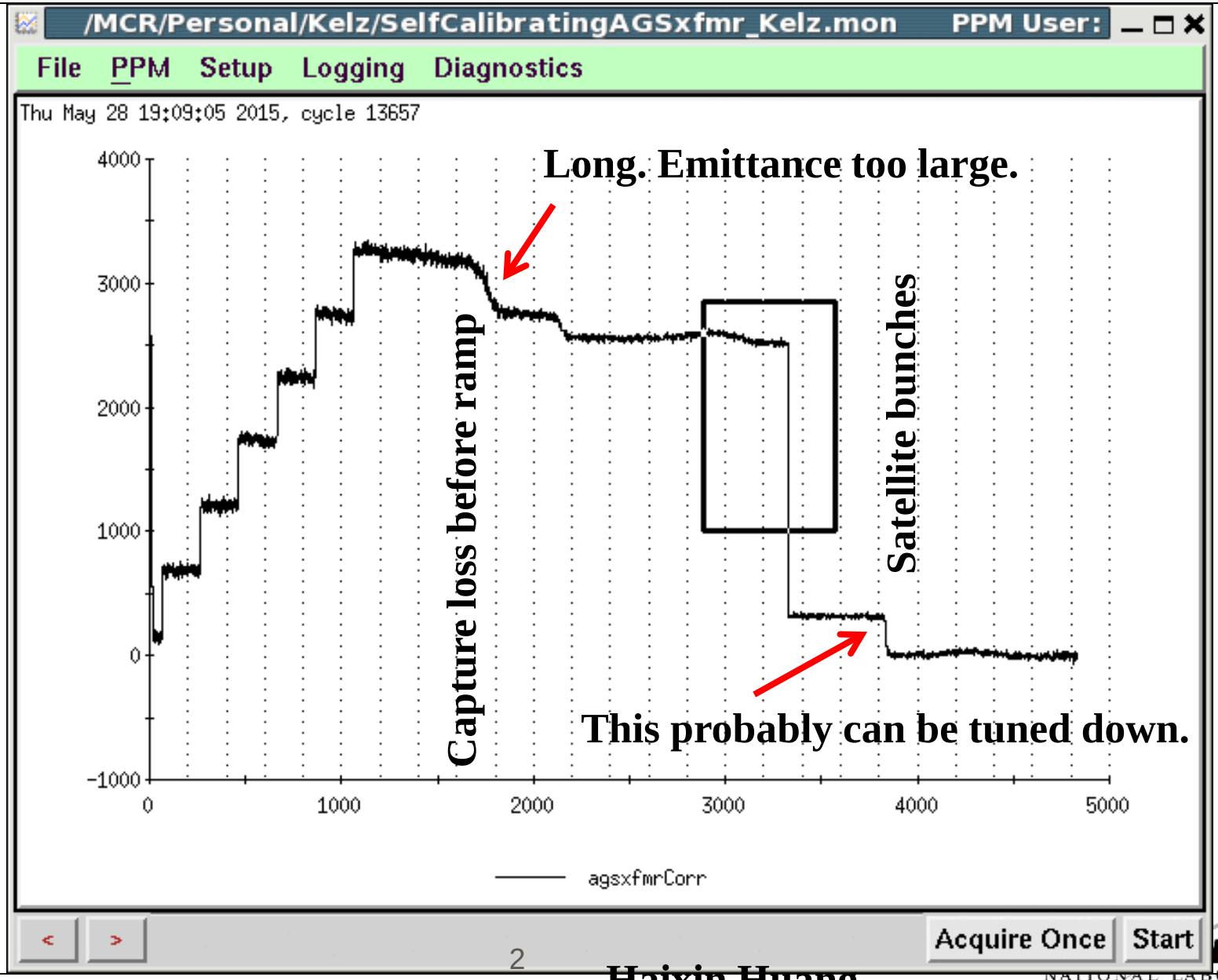
AGS/Booster Status

Haixin Huang

June 2, 2015
Time Meeting

AGS 6->3->1 Merge Intensity



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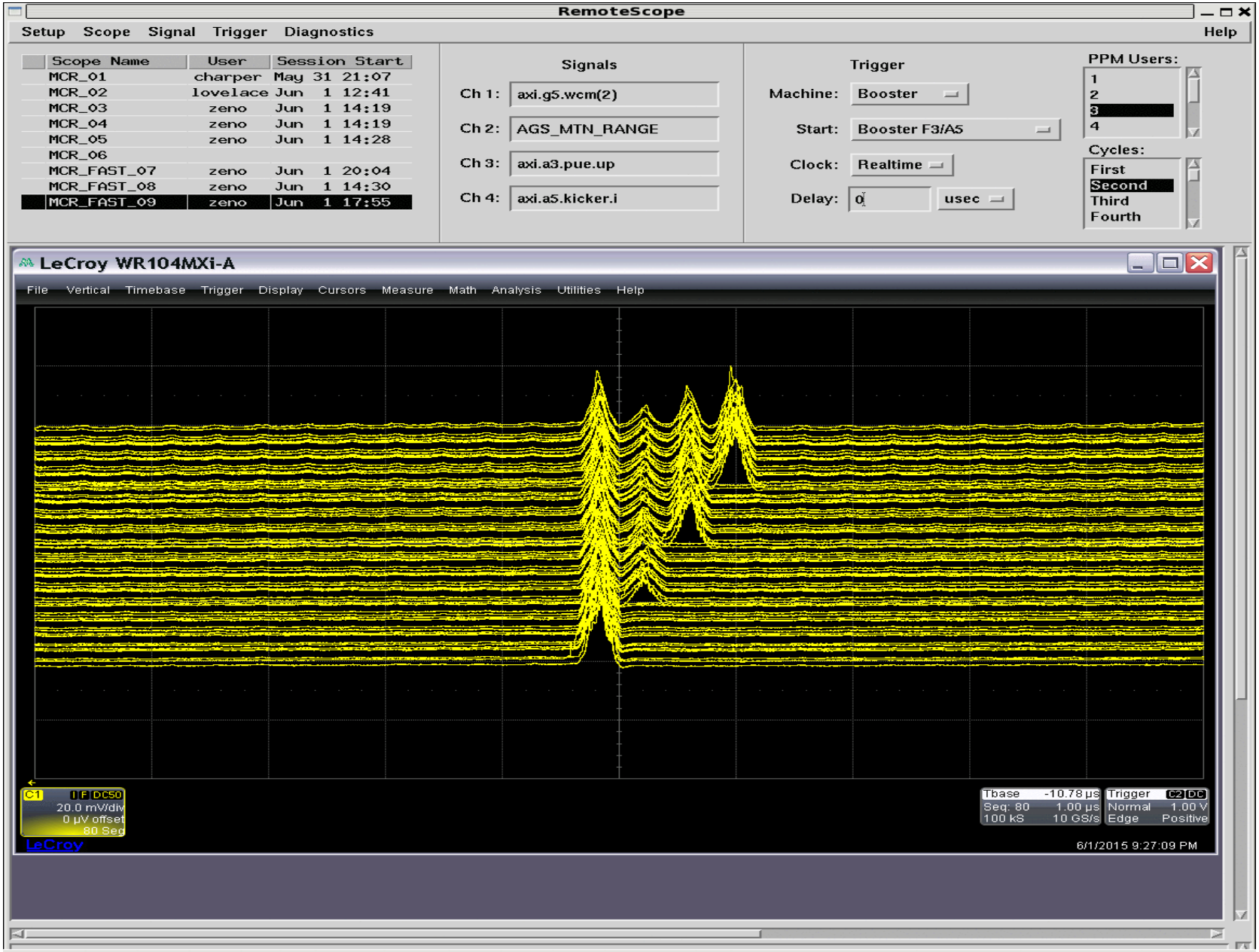
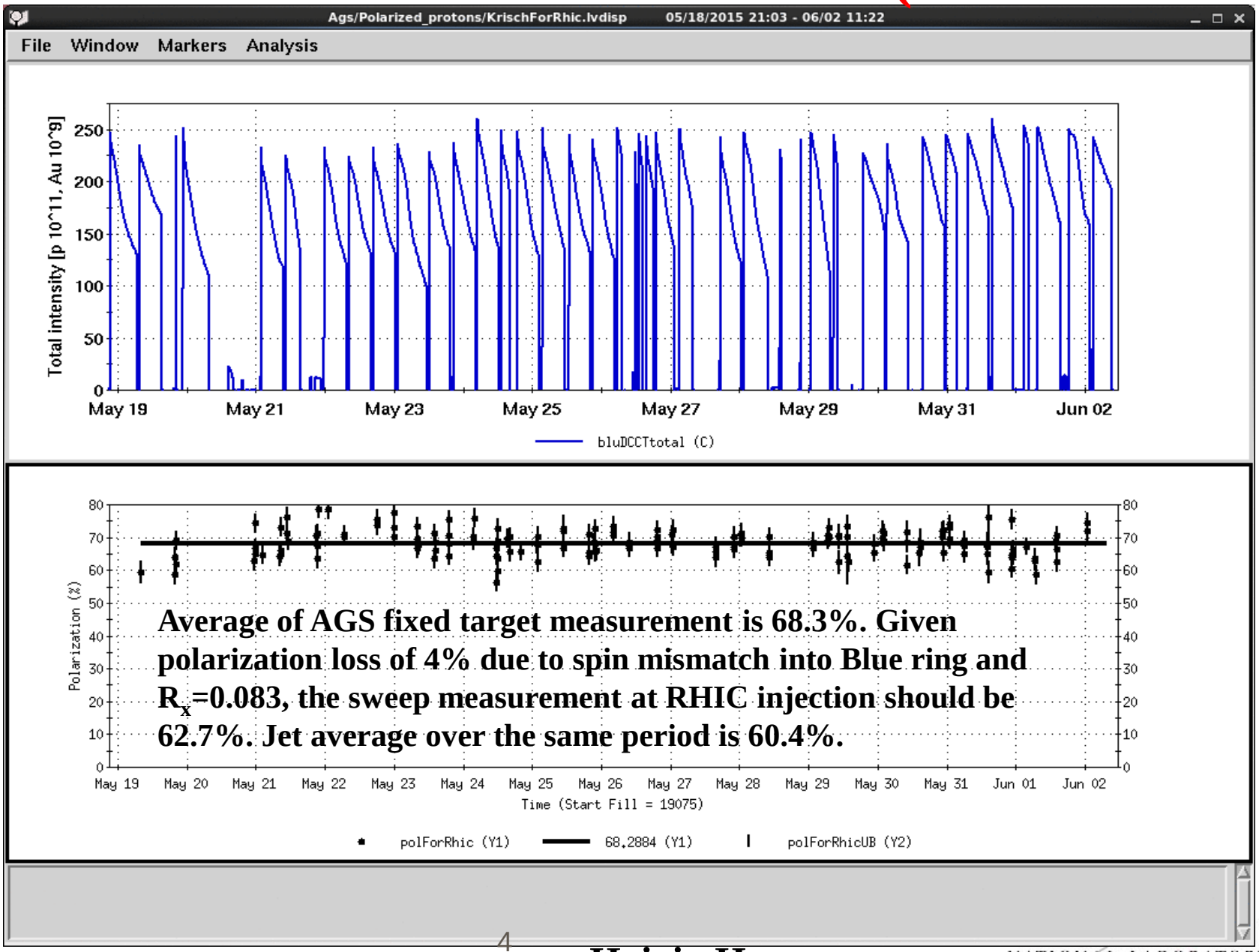
Al at AGS Injection (4 Bunches)

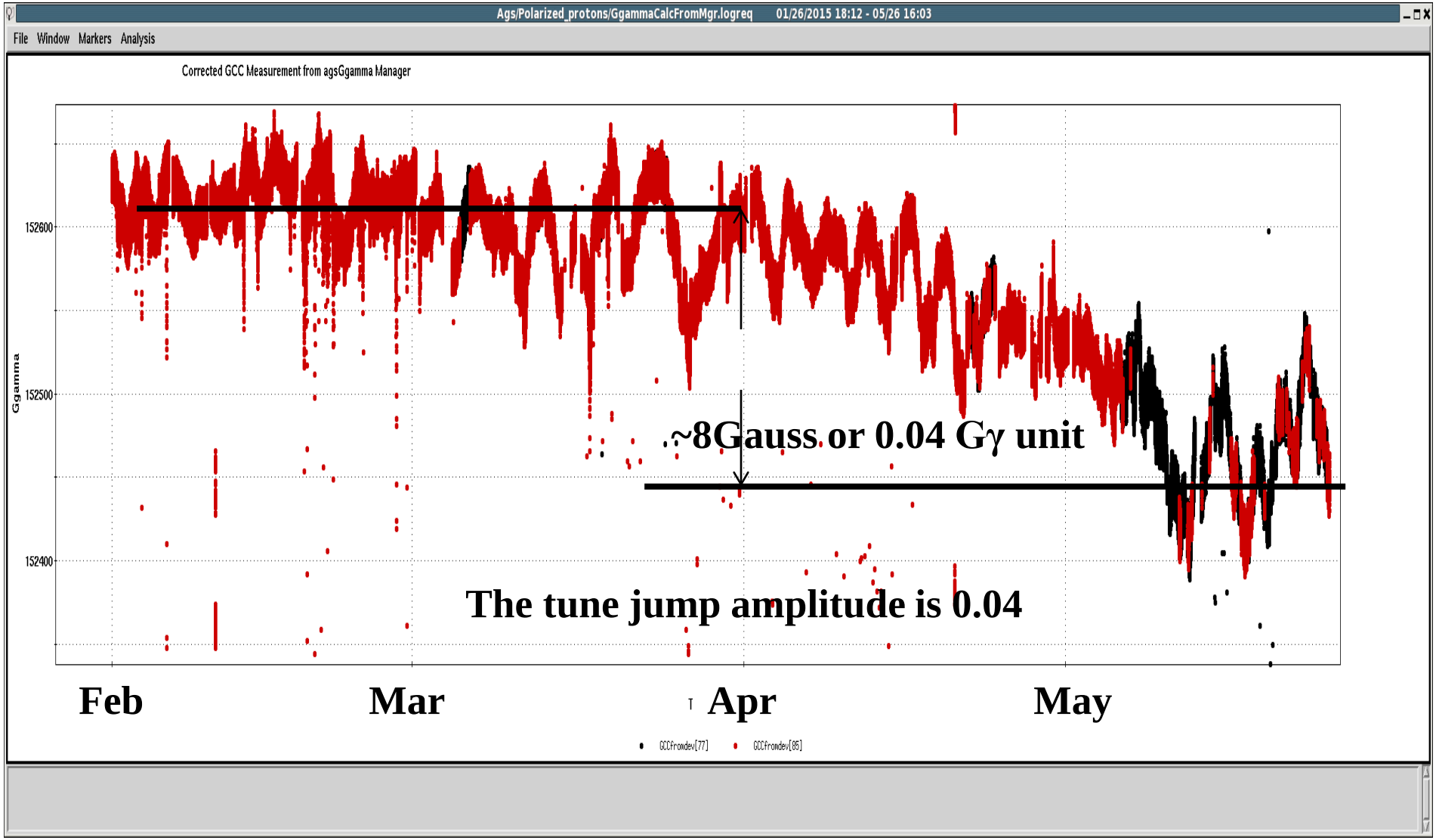


AGS Polarization for RHIC Fills (Last 2 Weeks)



Average of AGS fixed target measurement is 68.3%. Given polarization loss of 4% due to spin mismatch into Blue ring and R_x=0.083, the sweep measurement at RHIC injection should be 62.7%. Jet average over the same period is 60.4%.

AGS MM Drift Over Three Months(at 549ms)



Status

- Gold merge 6->3->1 was injected into RHIC Thursday night but the ramp failed. Three bunches debunched.
- Aluminum beam has reached AGS injection (4 EBIS pulses instead of 8). Next is to set up bunch merge in the AGS. Al Booster cycle has different dwell field from Au. It adds complications with the NSRL cycle (Au-NSRL and Al-NSRL).
- AGS eIPM commissioning continues.
- JQ continue to show the effect with on/off. JQ on: 66.60+-1.05, chi^2=1.63; JQ off: 61.95+-1.05, chi^2=1.23; ratio: 1.075+-0.025.
- Large variations observed in AGS main magnet over several months. One could correlate that to the hard time we have these days with the tune jumps efficiency. The feedback loop has two inputs: dwell field and flattop field. It probably changed the field on the ramp with flattop field change (required from RHIC match). Yesterday, we turned off the dwell field correction from the system. Early indication is that only flattop field is changed as intended.