

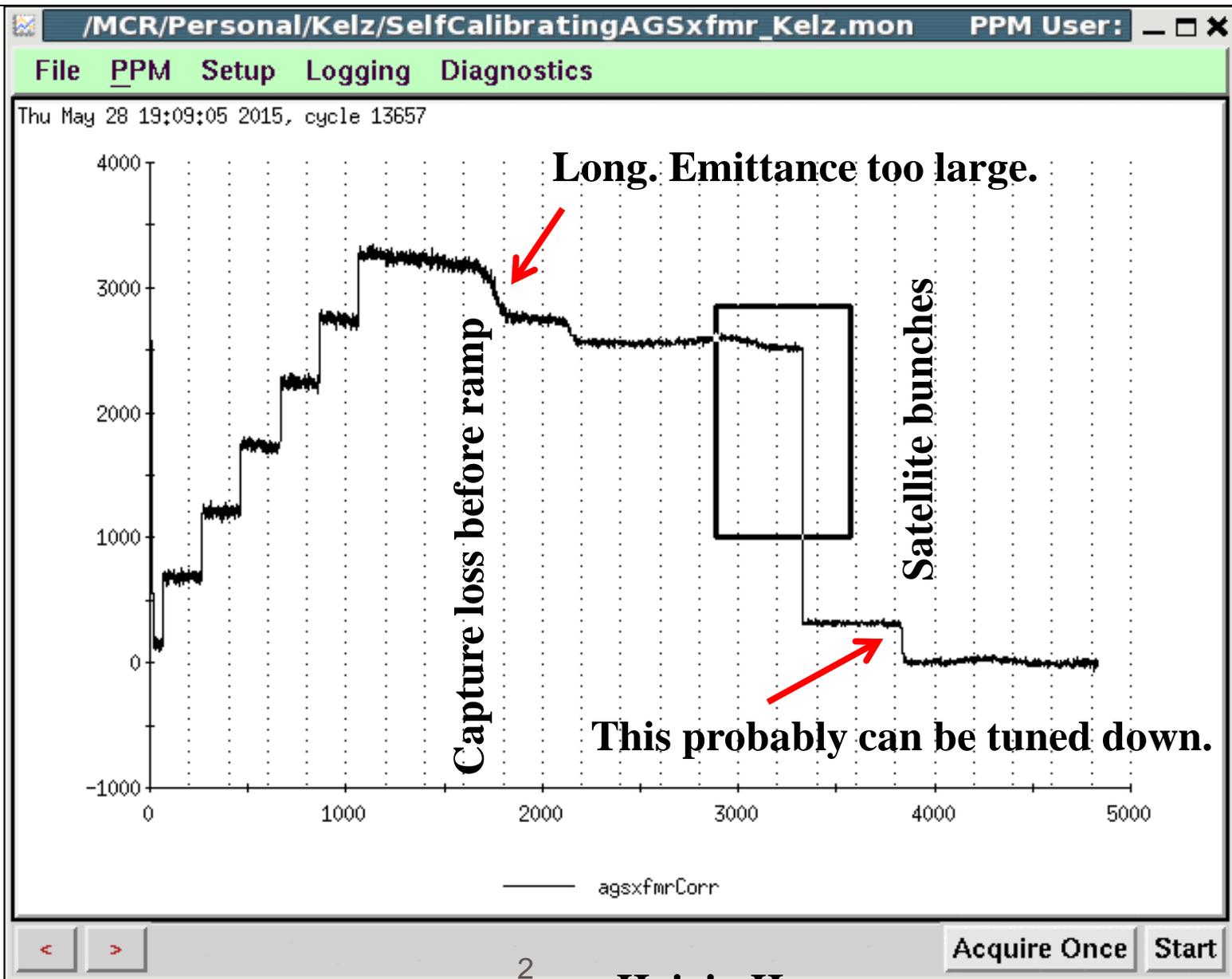
AGS/Booster Status

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Time Meeting

AGS 6->3->1 Merge Intensity



AI at AGS Injection (4 Bunches)

RemoteScope

Setup Scope Signal Trigger Diagnostics Help

Scope Name	User	Session Start
MCR_01	charper	May 31 21:07
MCR_02	lovelace	Jun 1 12:41
MCR_03	zeno	Jun 1 14:19
MCR_04	zeno	Jun 1 14:19
MCR_05	zeno	Jun 1 14:28
MCR_06		
MCR_FAST_07	zeno	Jun 1 20:04
MCR_FAST_08	zeno	Jun 1 14:30
MCR_FAST_09	zeno	Jun 1 17:55

Signals

Ch 1: axi.g5.wcm(2)
Ch 2: AGS_MTN_RANGE
Ch 3: axi.a3.pue.up
Ch 4: axi.a5.kicker.i

Trigger

Machine: Booster
Start: Booster F3/A5
Clock: Realtime
Delay: 0 usec

PPM Users:

1
2
3
4

Cycles:

First
Second
Third
Fourth

LeCroy WR104MXi-A

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help

C1 1 F/DC50
20.0 mV/div
0 μ V offset
80 Sec

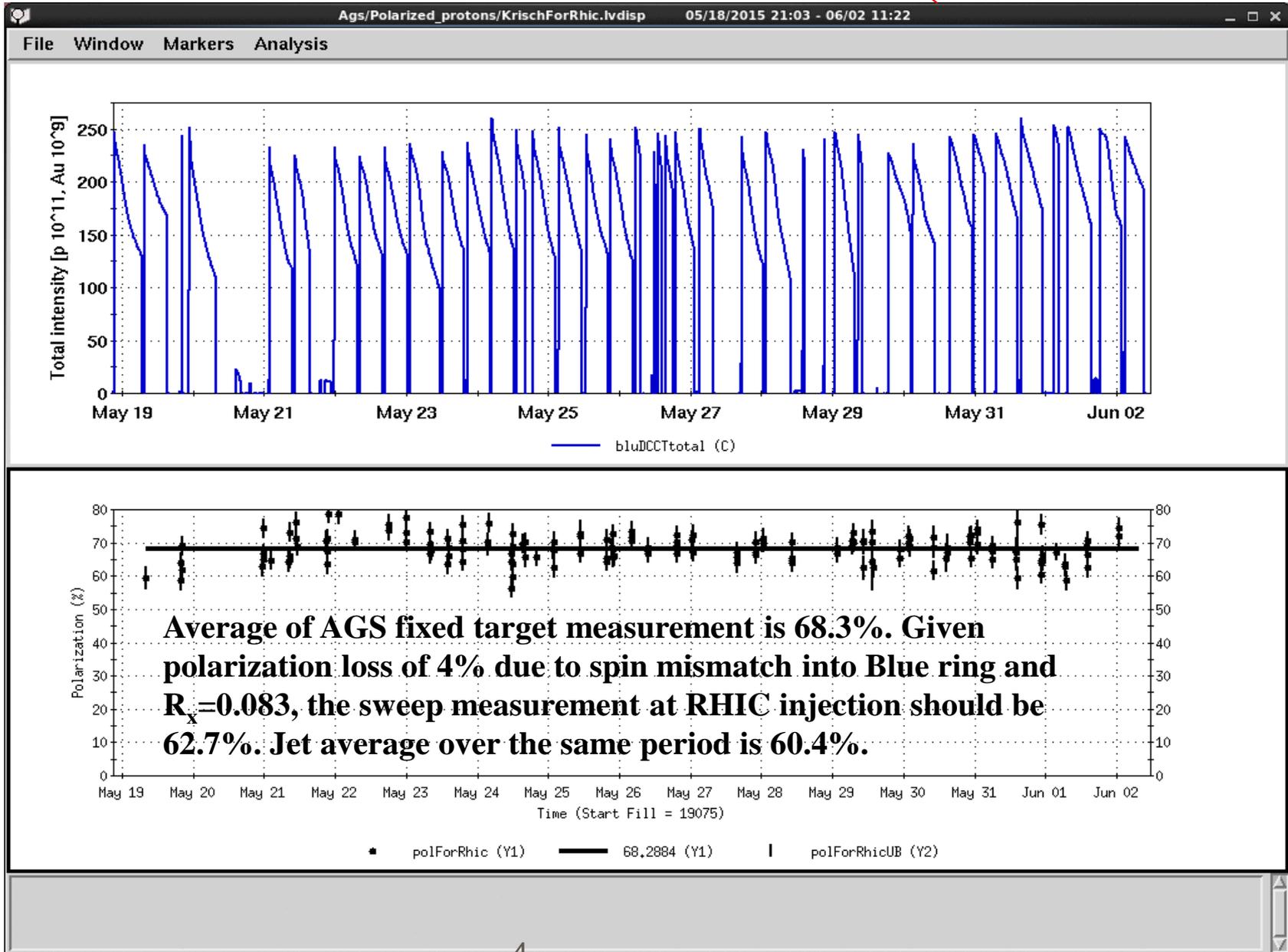
C2 DC

Tbase -10.78 μ s
Seq: 80 1.00 μ s
100 kS 10 GS/s

Trigger Normal 1.00 V
Edge Positive

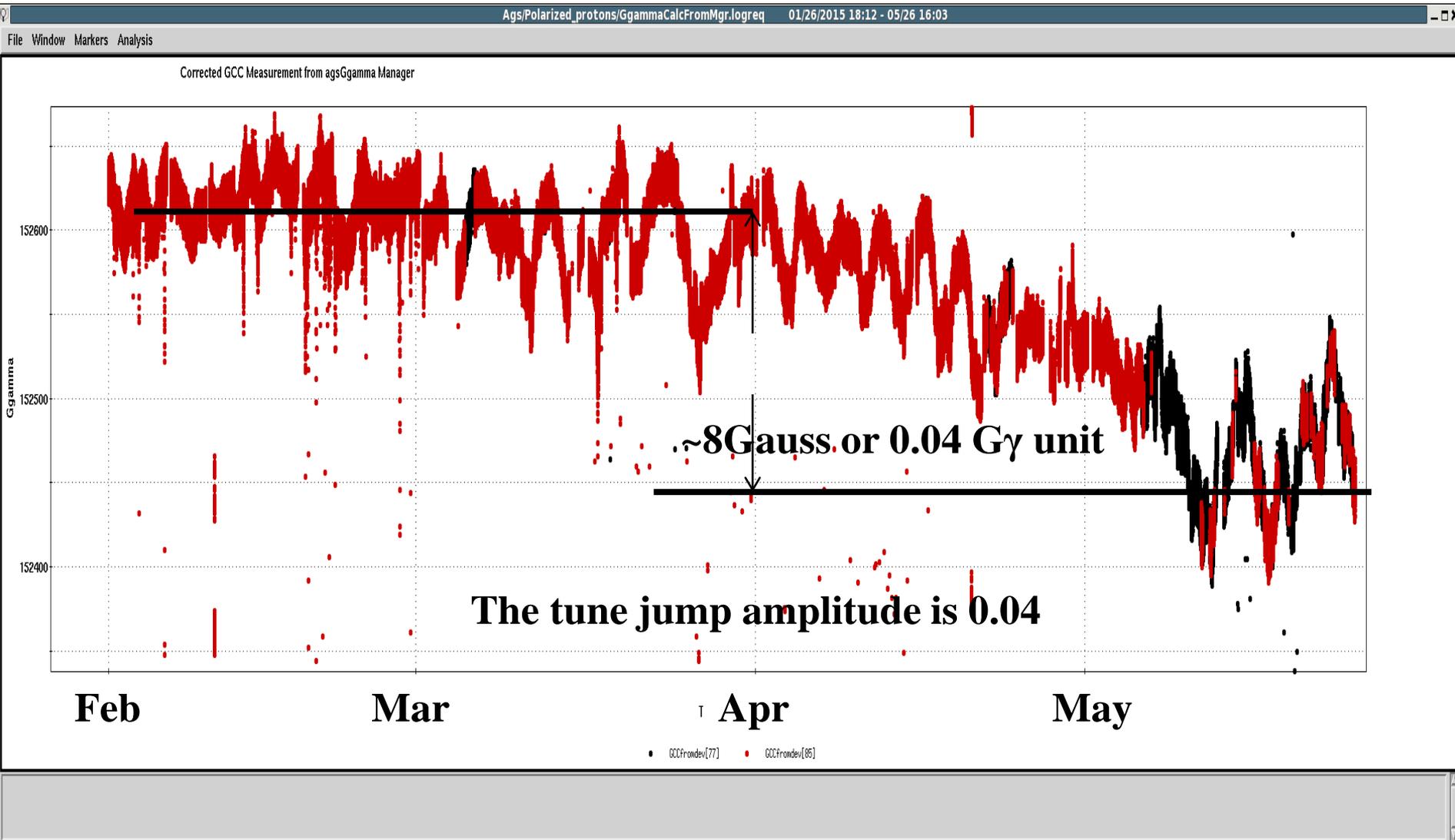
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AGS Polarization for RHIC Fills (Last 2 Weeks)



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.