

# **AGS/Booster Status**

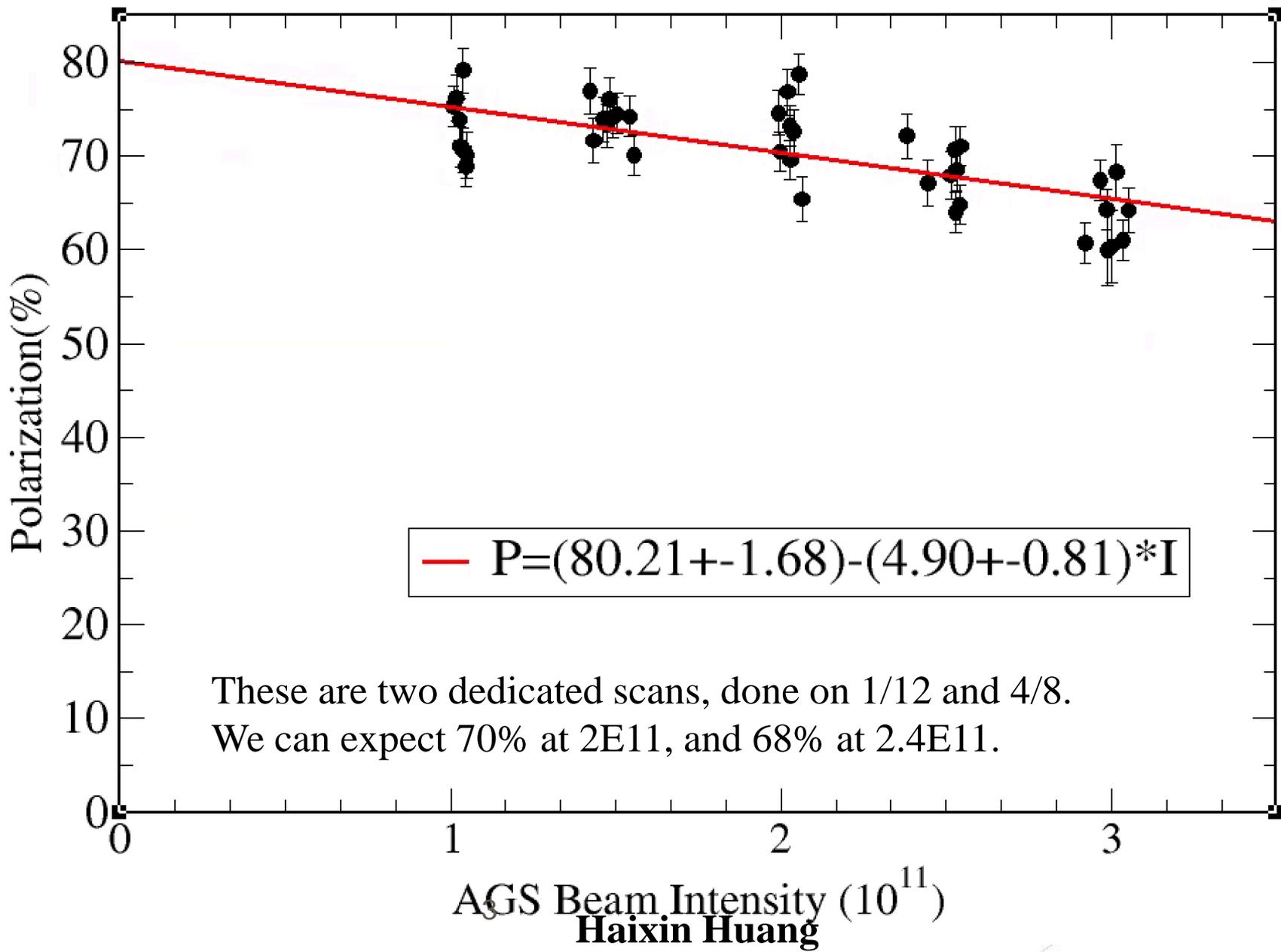
Haixin Huang

Apr. 21, 2015  
Time Meeting

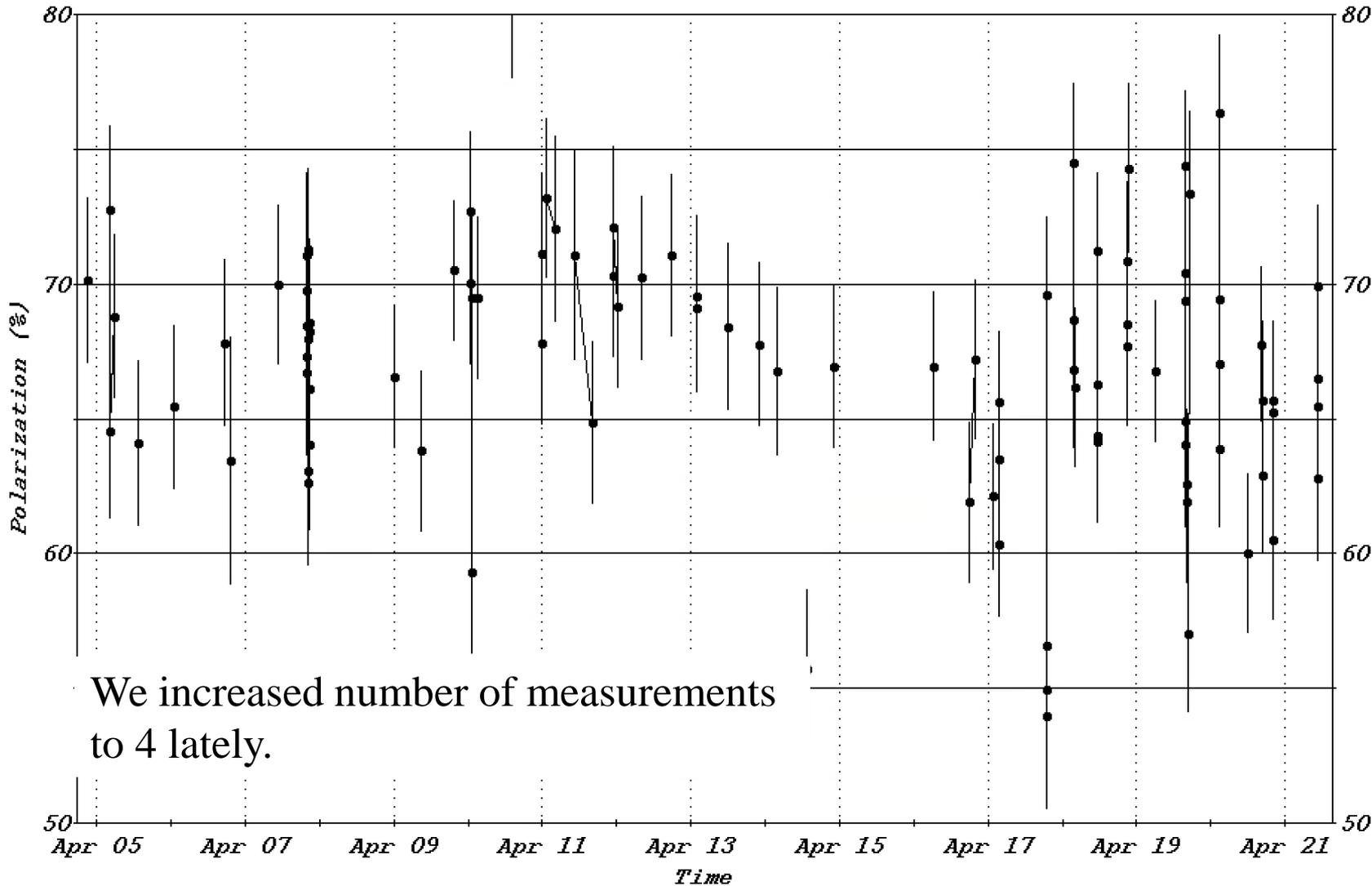
# Status

- Polarization out AGS deterioration started last Thursday. No effect seen with JQ on. A BMMPS module was fixed on Friday to get rid of the noise on Booster main magnet. Polarization since then is around 66% for  $2.4E11$ . The issue is that the AGS can drift away for no apparent reason. So far we searched many parameters, such as B field, tunes at 0+ & 36+ resonances, beam coherence, damper settings. No source was found.
- Last night: JQ on:  $66.18 \pm 1.09\%$ ; JQ off:  $59.43 \pm 1.09\%$ ; Ratio of gain with JQ:  $1.113 \pm 0.028$ .
- Vertical eIPM seems working now.
- A new JQ timing was generated on Friday. It gives slightly better polarization.
- Switch to p-Au in one week. Au beam setup in Booster was started on Friday, but we did not get very far due to unstable injection field. Au setup will continue today.
- Booster E6 cavity and AGS RF C Station are fixed.
- AGS polarimeter target replacement is also needed. Either we do it on Thursday or wait till next Monday, but same groups will work on RHIC polarimeter, too.

# AGS Polarization vs. Intensity



# AGS Polarization for RHIC Fills (Last 2 Weeks)



We increased number of measurements to 4 lately.

● polForRhic (Y1) | polForRhicUB (Y2)