

Injector Status

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Time Meeting

Injector Status

- EBIS repair work required to set up injectors with Au from Tandem. With 6 pulses from Tandem, the AGS bunch merge was changed from 12->6->2 to 6->2 (one less merge). This improved the AGS injection match and bunch intensity of $2.5E9$ was achieved and met the limited RHIC intensity requirement. This is a new record for Au beam intensity at AGS extraction with input from tandem. Needless to say, it is not fair to compare the setup of one week (tandem, $2.5E9$) with setup of several month (EBIS, $3.15E9$).
- The planned three day deuteron setup was squeezed down to one day due to the EBIS repair. We got beam through AtR last night but with large beam losses. The issues are the extraction kicker magnet and synchro, which are worked on today. Bunch intensity is $1.5E11$ /bunch with 8 pulses from tandem (2 bunches at AGS extraction). $2.2E11$ /bunch was reach in March with 4 pulses. The intensity will be worked on today, too.
- There were a few Booster PPMR limit trips with tandem Au function while NSRL iron cycle. It was traced to old DC PPMR limit, which should have been raised together with AC PPMR limit. It has been bypassed on 5/5.
- The proton h=6 acceleration showed smaller vertical emittance than h=8 setup. We would like to confirm that with proton beam, so it will be nice to run proton again in the AGS for a few shifts.

Deuteron Merge (8->4->2) in the AGS

RemoteScope

Setup Scope Signal Trigger Diagnostics Help

Scope Name	User	Session Start
MCR_01	zeno	May 9 13:18
MCR_02	schoefer	May 9 15:18
MCR_03	zeno	May 9 13:19
MCR_04	kling	May 7 20:32
MCR_05		
MCR_06	zeno	May 3 17:55
MCR_FAST_07	zeno	May 9 15:47
MCR_FAST_08	marr	May 9 15:19
MCR_FAST_09	zeno	May 9 15:56

Signals

Ch 1: axi.g5.wcm(2)

Ch 2: AGS_MTN_RANGE

Ch 3: BOOSTER_MTN_RANGE

Ch 4: bxi.wcm

Trigger

Machine: AGS

Start: AGS To

Clock: Realtime

Delay: 2450000 usec

PPM Users:

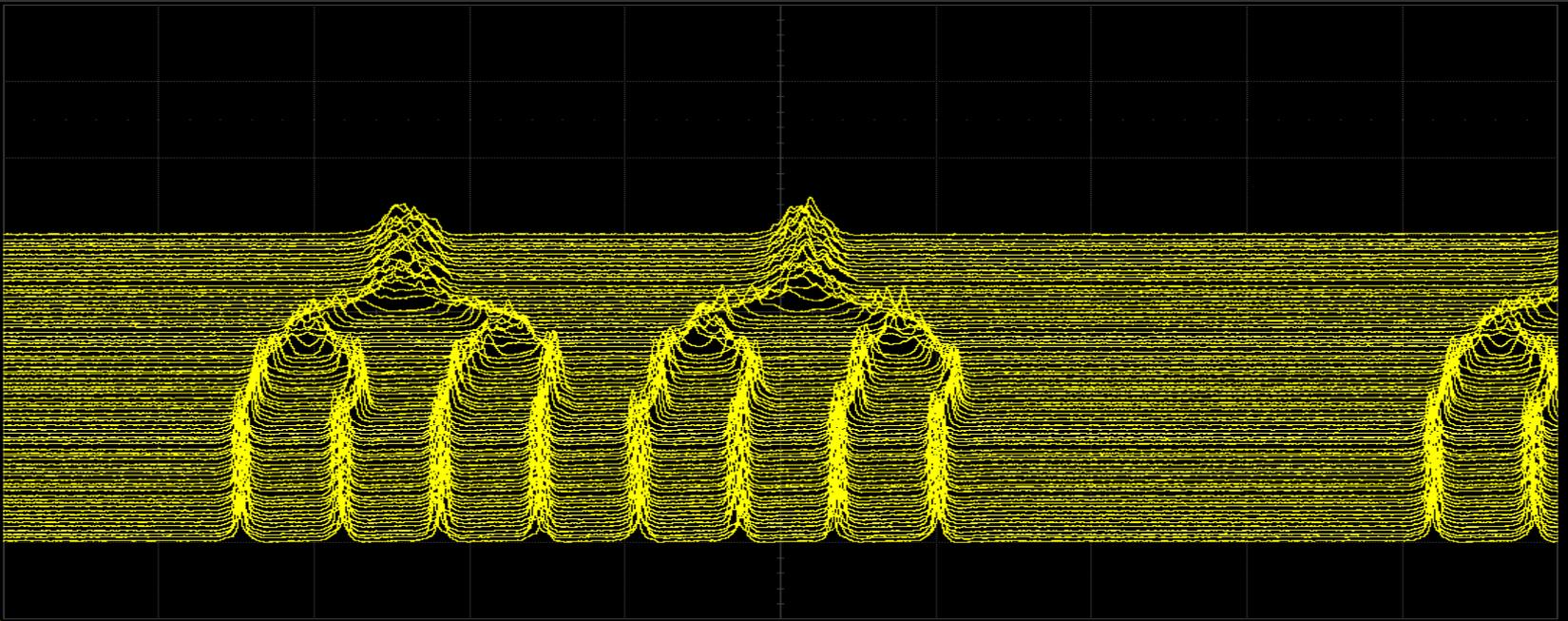
- 1
- 2
- 3
- 4

Cycles:

- First
- Second
- Third
- Fourth

LeCroy WR104MXi-A

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



Timebase -7.46 μ s Trigger C2 DC

Seq: 80 500 ns Normal 1.00 V

50.0 kS 10 GS/s Edge Negative

Waiting for Trigger

demo

Attempting to connect axi.g5.wcm(2) to channel 1 on scope MCR_FAST_07...
Channel 1 on scope MCR_FAST_09 successfully cleared.
Channel 1 on scope MCR_FAST_07 successfully set to signal axi.g5.wcm(2).
Setup file /operations/app_store/ElogServer/tmpFiles/RemoteScope.1462830162.77595006 successfully saved.