

Hall A RC Report

CREX (E12-12-004)

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UMass Amherst

Aug 5 -Aug 12, 2020

Daily Activities (Aug 7 - Aug 11)

8/5:Wednesday **No beam**

8/6:Thursday **No beam**

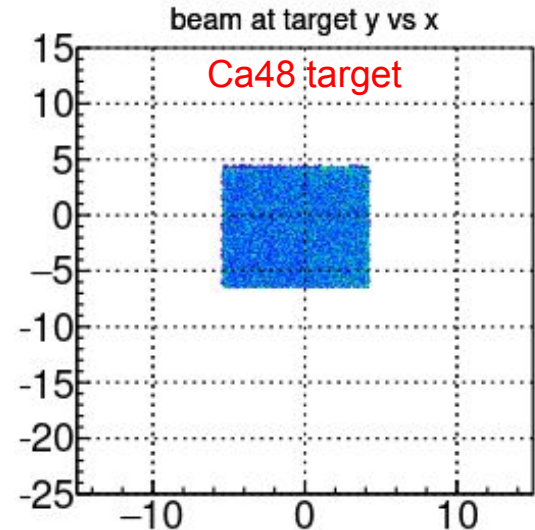
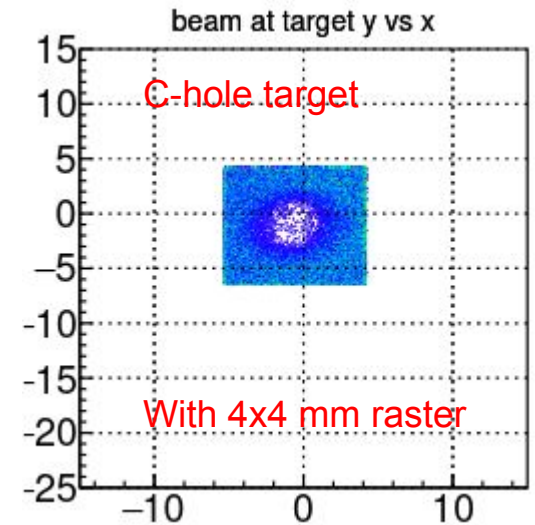
8/7:Friday **No beam**

8/8:Saturday **Beam in the hall 14:30**

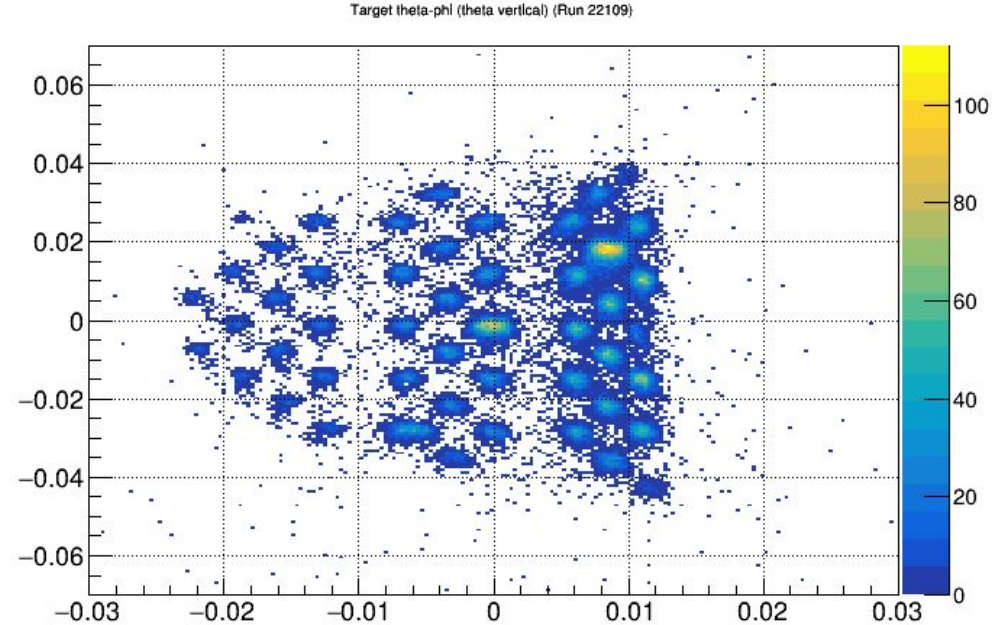
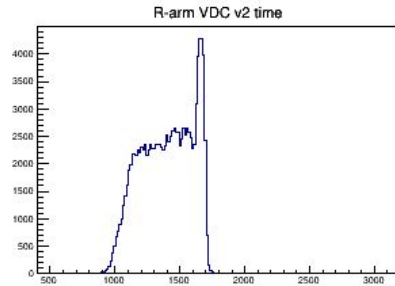
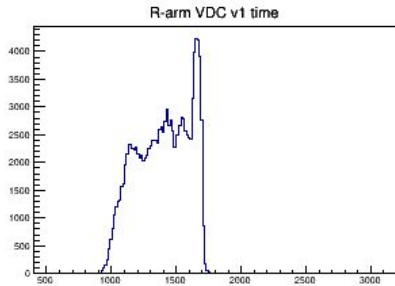
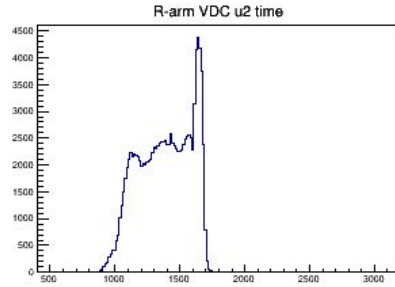
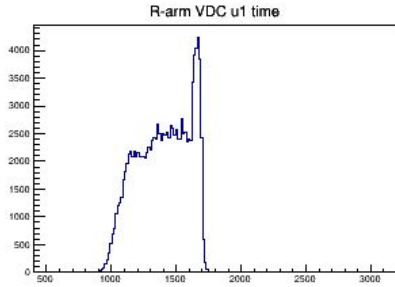
- Beam tuning during the whole swing shift.

8/9:Sunday

- Started with March running conditions (target locks, raster current).



8/9: Sunday - Started Optics data taking, some GEM data too.



RHRS VDC: Thanks to all the people who helped for installation and commissioning of RHRS VDC

8/10:Monday - **Continued taking Optics data**

- 3:00 AM RHRS dipole starts ramping down by itself
- Changed run plan and continued commissioning while dipole is ramping down
- During day - stopped optics data taking and started high current commissioning
- LHRS hut temperature is raising (79F)..
- Swing - Ion chamber calibration, target commissioning, Fast feedback and beam modulation commissioning.

8/11: Tuesday **Production started with 120 uA beam..**

- With 150 uA the Compton background was too high (even beam is straight through).. Decided to run at 120 uA with acceptable Compton background rate..
- Fast Feedback - introducing large (~1mm) vertical beam motion

Summary for this week

CREX (E12-12-004)

- Used beam whenever it was available - except some down time for RHRS dipole
- Fast feedback - Need to be fixed..
- Compton background issues

Upcoming plans

- Tuning through Compton chicane.
- Compton and Moller polarimeter commissioning
- Beam Monitor (BPM, BCM) calibrations
- and, Production....