

# BCM status

Alexandre Camsonne

DVCS collaboration meeting

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# Current status

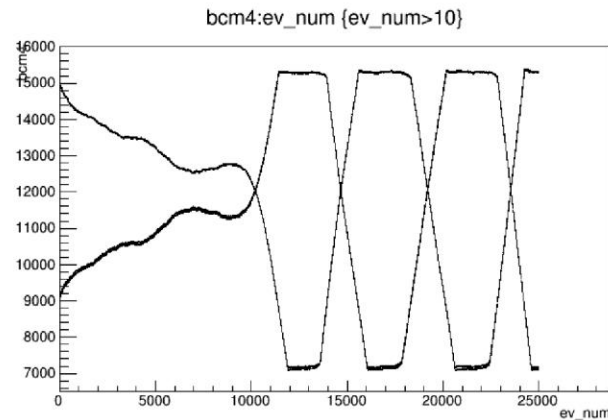
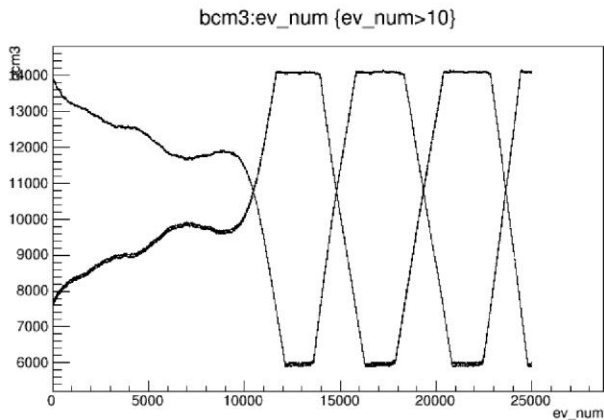
- 1 MHz receiver
  - Up x1,x3,x10
  - Down x1
- New receiver
  - Up
  - down

# Additional beamline equipment

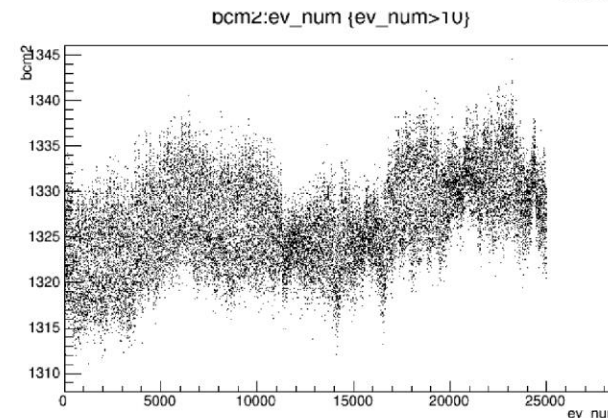
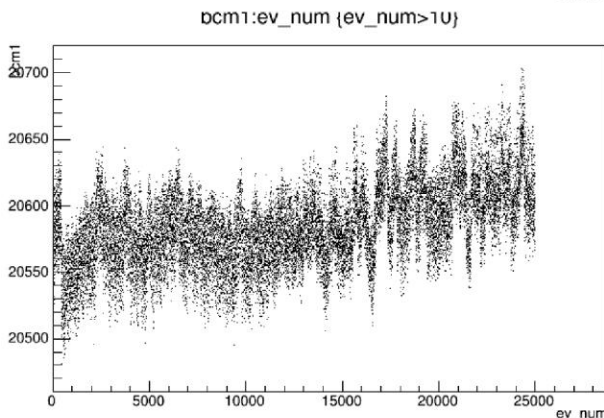
- 2 additional triplet XYQ ?
  - Parity DAQ
  - EPICS
- Not in HRS data stream besides EPICS, can be used to cross check or try to send to scalers ( not sure if there are enough cables )

# Fall run

## BCMs: run 2159



1 MHz

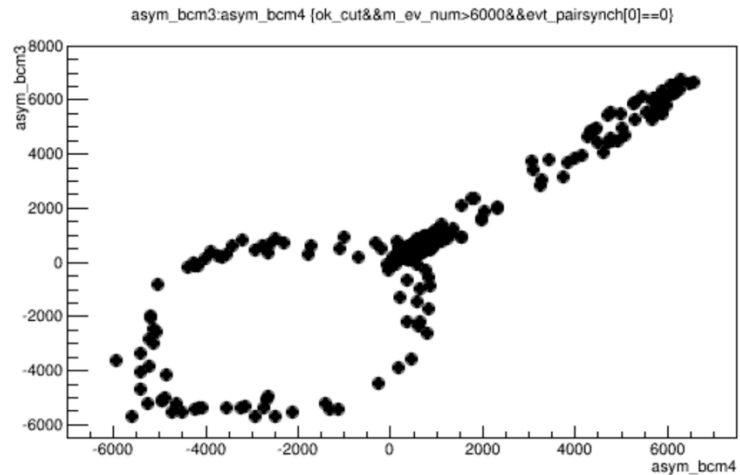
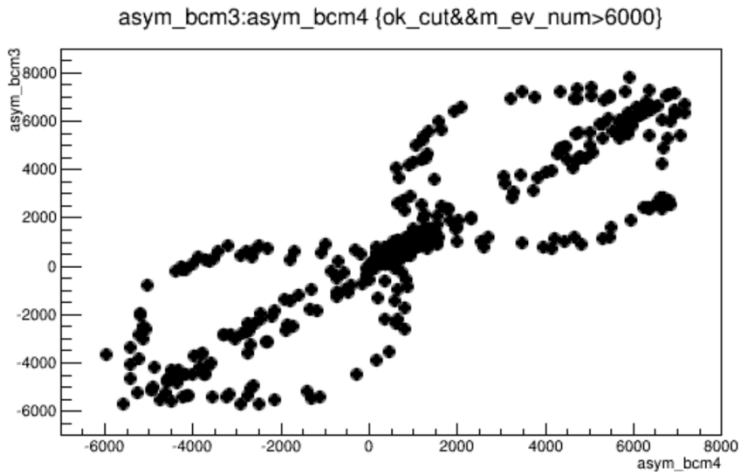


new Musson  
receivers

- This run was at  $\sim 40\mu\text{A}$  and 240Hz helicity flip rate
- While the new BCMs seems to show some stability they are considerably noisy

# Fall run

## BCMs: old 1MHz system



- This system showed some odd oscillations: <https://logbooks.jlab.org/entry/3368166> (older run)
- This was not studied in detail (they are in the data stream for all the runs)

# UNSER

- UNSER
  - Control works
    - Control source
    - EPICS
  - Scaler not working ( most likely unplugged at VtoF)

# BCMs: TODO

- The new Musson triplets were not working for this fall (they just required a firmware update and we hope to have them up and running for the spring)
- Understand what were the problems with the old 1 MHz system (optional?!)
- Make sure the noise on the new BCMs is not coming from our DAQ
  - measure the pedestal width without beam/without cable and compare to what we had during the run
- Work with Musson to make sure the new receivers get debugged before the spring run

# Plan

- Test with source to check linearity range of current setup
- Take linear fan out
- Redo source test check everything is working fine
- Fix unser
- Add Parity receiver in EPICS