# The MINERνA Operations Report
# All Experimenters Meeting

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# Taking Data

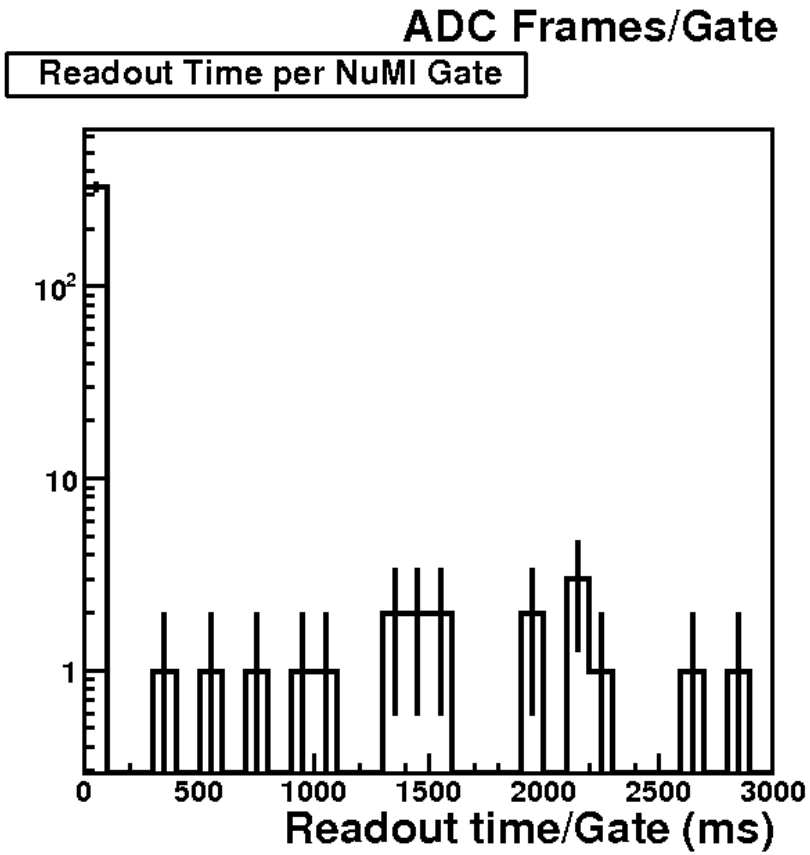
- We are taking data with very small downtimes
- All parts of the detector seem to be operating fine
  - No problems with the DAQ or hardware seen.
- We still have problems with the Run Control (RC) GUI will sometimes go away.
  - Data taking continues
    - Checking the online monitoring program determines that data taking is continuing
  - RC GUI can be easily brought back
  - The remote shifters do not have this problem & it did happen in the LE Run, where the 12$^{th}$ floor machines ran on SL5
    - Now they run SL6

# CROC-E Firmware To Check CRC word

- We are working on the firmware upgrade for the CROC-Es which checks the CRC word
  - Goal: The CRC word (cyclic redundancy check) for all the frames will be passed to the offline to check that there is no problem with the data.
- We have decided on the method to insert the CDC word into our data structure. This will now be implemented by Cristian Gingu (PPD EED). We hope to implement this during the upcoming beam downtime.
  - The CROC-Es have to be brought to the 14$^{th}$ floor to implement this change.

# Long Readout Times

- For certain runs we have had a handful of events with very long readout times.
  - The readout time should be < 0.1 sec, the spike at 0 ms
- For readout times > 1700 ms we do not read in the next gate. About 0.015% of the events have this problem
- We is looking into the origin of this problem

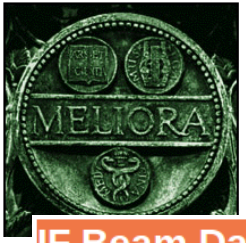


# MINOS Keepup & ROOT

- MINOS is updating to a newer version of ROOT to make their Keepup data (daily processing) faster.
- Our Keepup can read the newer version of MINOS Keepup files. There are some differences in muon reconstruction and we will meet with MINOS to understand these differences
  - We need MINOS to continue the older version of Keepup while we understand these differences.

# MINOS & MINERvA Keepup

- In addition, we need to verify that our Keepup works with MINOS old version of Keepup.
  - Last week we reported the for roughly 2/3 of the runs, we were not able to match MINERvA tracks to MINOS tracks. We can now match the MINERvA tracks & MINOS tracks.
  - The timing between the spill changed between the LE run and the ME run. The time between the spills matters  for the matching code.




# IF Beam Data Server

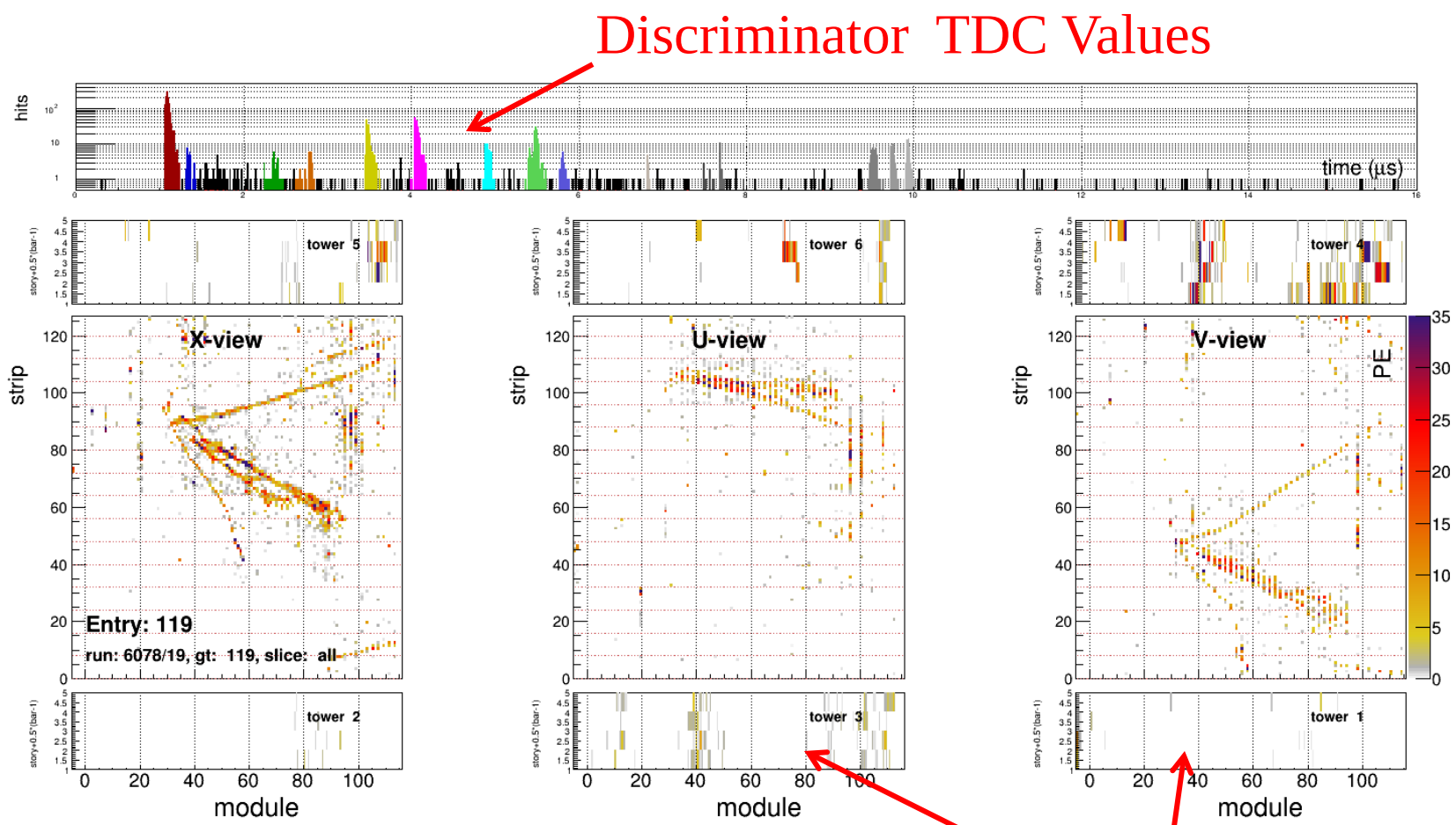
**IF Beam Data Server A9 Event Monitoring**

| | |
|---|---|
| Last update: | Mon Sep 30 2013 12:28:04 GMT-0500 (CDT) (1.0s ago) |
| Time since last 8F: | 1.3s |
| Last A9: | Mon Sep 30 2013 12:28:02 GMT-0500 (CDT) (2.7s ago) |
| Last A9 interval: | 1.73s |

Shifters watch this page. It will turn red if there is a problem.

- The IF Beam Data Server failed for about 4 hours on Sep 26 and 27
  - The IF Beam Data Server supplies ACNET information to the NuMI experiments.
  - MINERvA & MINOS cannot analyze the data unless they have the ACNET information.
- The failure was due to AD servers overloading.
- Presently, there is no method to recover the data to the IF Beam Database. Someone need to develop a procedure to recover the ACNET data to the IF Beam Database.
- When the IF Beam Data Server fails, as noticed by the above monitor, the procedures to report the problem are not defined.

# Event Display




- Events over a 10 μs gate