## CAEN Noise Peak Issue

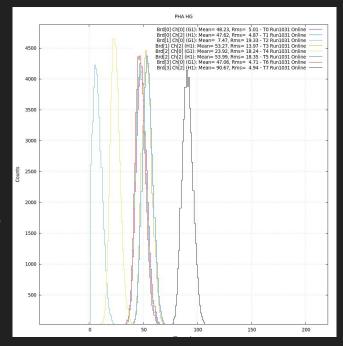
by: Cordney Nash (UTK student interning at ORNL)

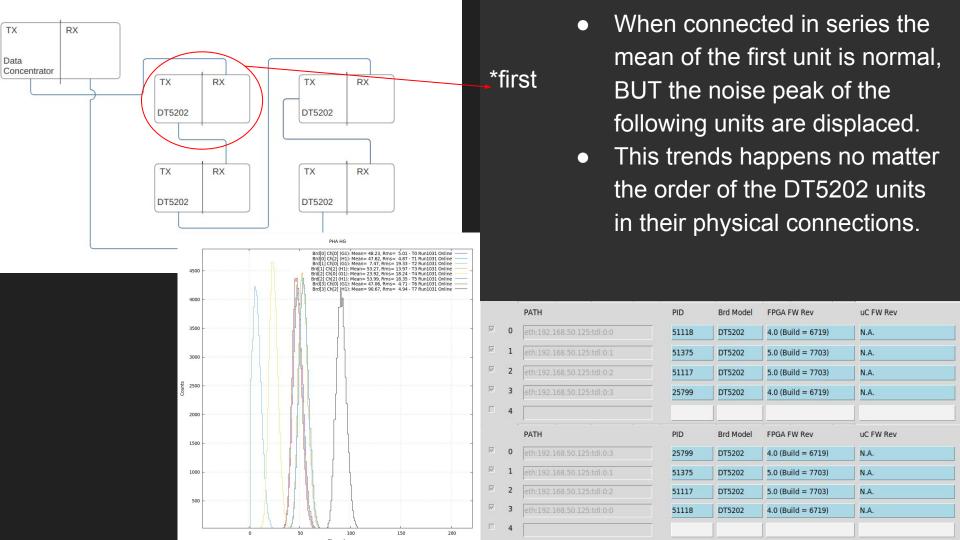
We tested several DT5202 units with the concentrator

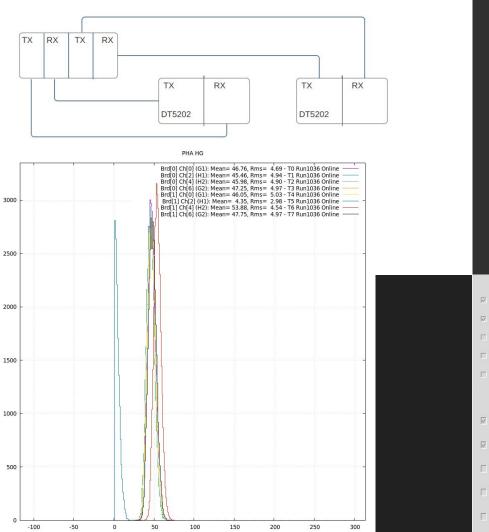
## board

- Noise peaks were all over the place
  - Should be 50
  - Shifted peaks varies between 7-100
- One single units works but multiple in series or in parallel do not.
  - We suspected grounding issues
    - Internal triggering (PTRG) -> No electrical connections
    - We still seen this problem
    - Connections between the DT5202 units are fiber cables.









 Even when connected in parallel we still see shifted noise peaks.



## PROBLEMS WE ARE FACING

- This is purely a software issue.
- We do not see this problem when only one unit is connected to the DT5215 unit or directly to the computer.
- We suspected it being a software problem and thus updated the Janus software
  - After updating the Janus (v 3.6.0) software we did not encounter this problem.

