



# DSG NPS Collaborators' Meeting Update

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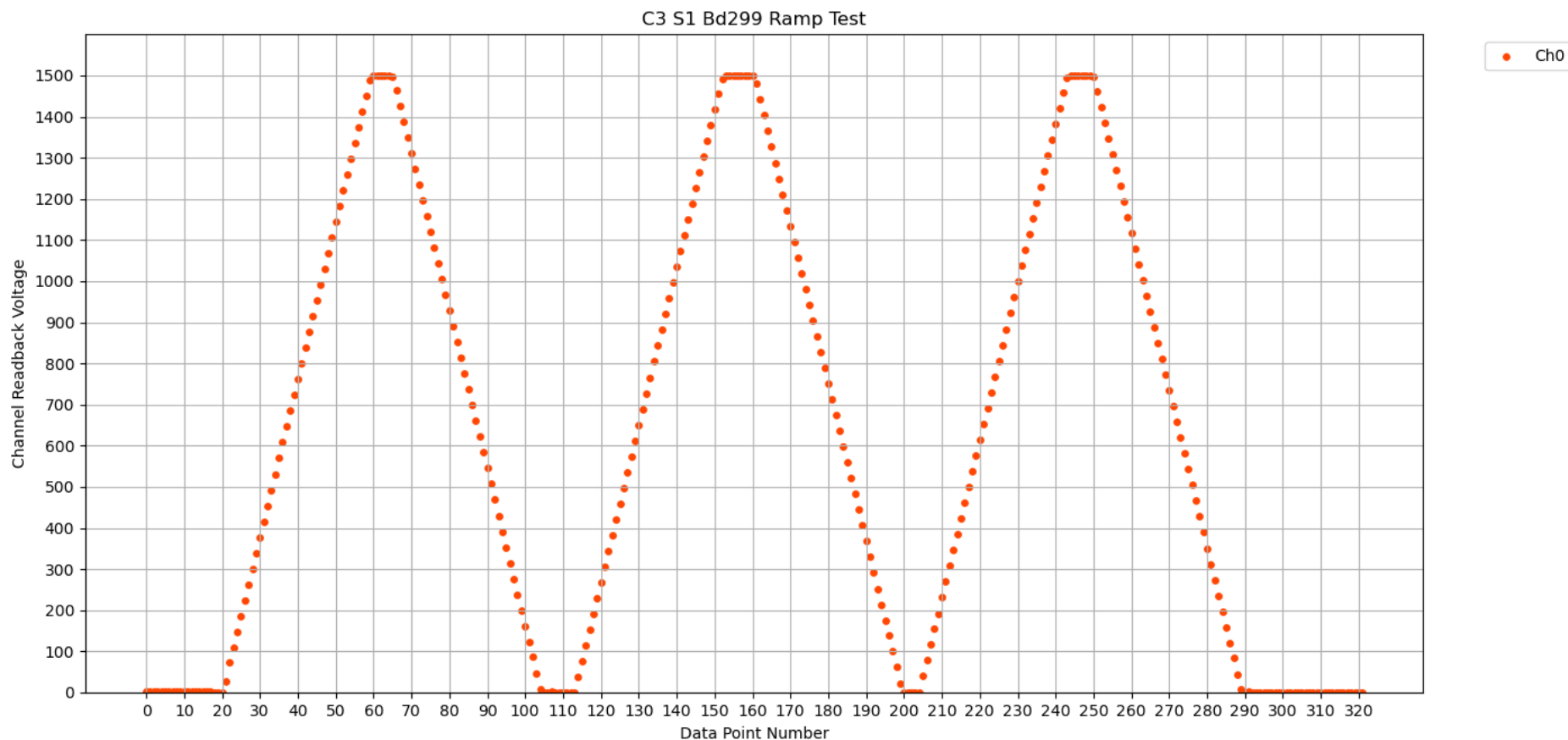
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# Status

- HV Divider Cables
  - Mindy Leffel has fabricated 980 of 1100 cables
- Module Testing
  - Ramp testing in progress: 16 of 34 modules tested
  - Noted EPICS communications issues
- Procurement status for cables/connectors unchanged
  - Radiall 52-pin connectors: ETA November 2020
  - SAMTEC IPBD-15-D-K and IPBD-08-D-K: ETA November 2020
  - GWP 142' multi-conductor wire: ETA December 2020

# CAEN HV Module Ramp Testing

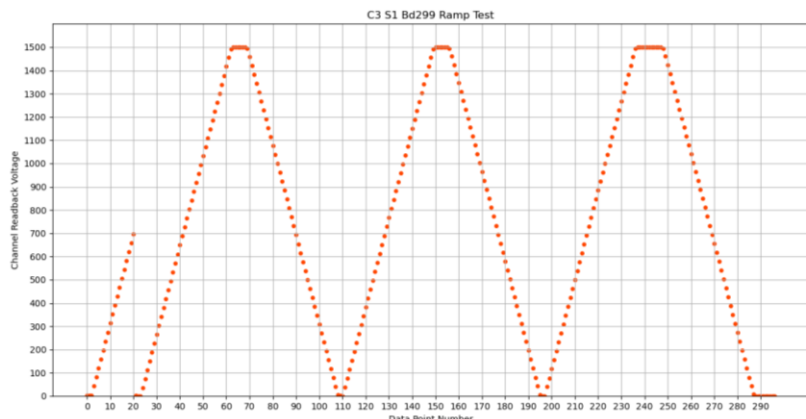
- Ramp testing
  - Three ramp cycles with a rate of 50 V/s



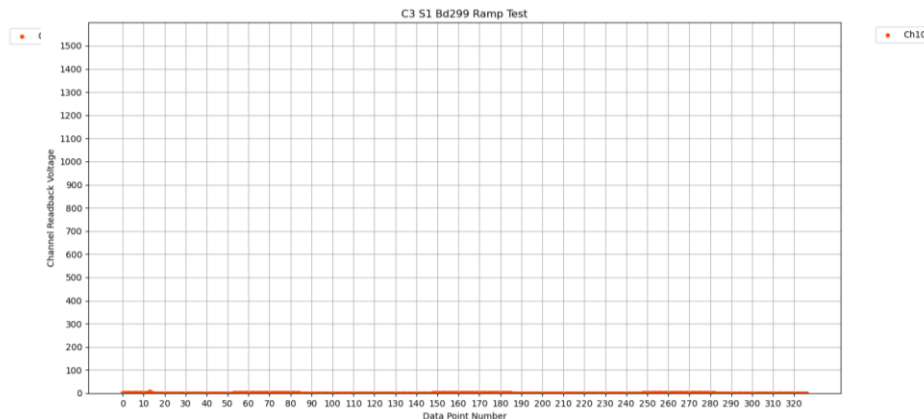
Module #299 Ch #0

# CAEN HV Module Ramp Testing

- Debugging CSS-BOY EPICS communication issues
  - Some channels failed to ramp properly or ramp at all



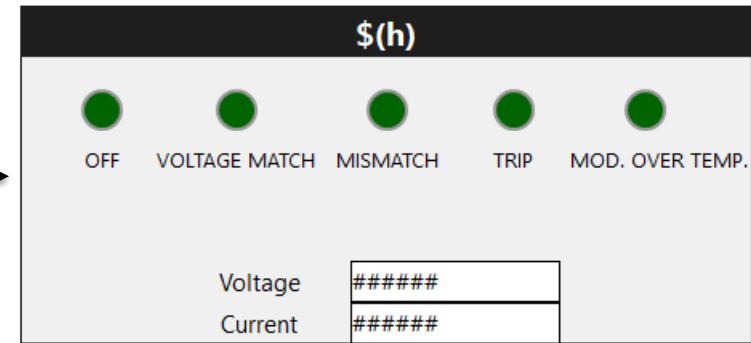
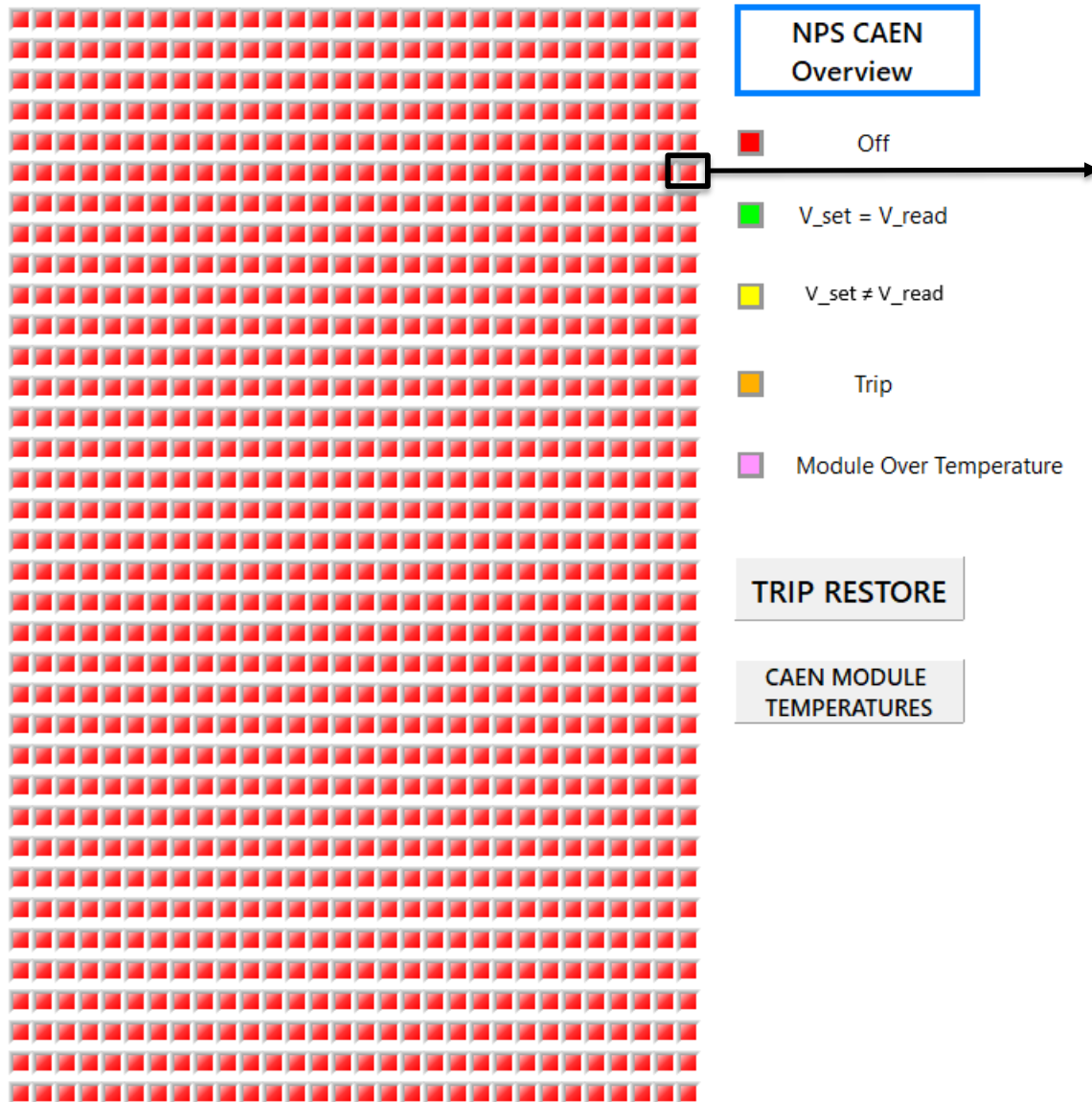
Module #299 Ch #2



Module #299 Ch #10

- Other options for addressing communications issues during ramp test
  - Python program using PyEpics package
    - None of the extra background processes associated with CSS-BOY
  - Shell script
    - Gives direct caput/caget commands from Linux machine

# NPS CAEN Overview Revision

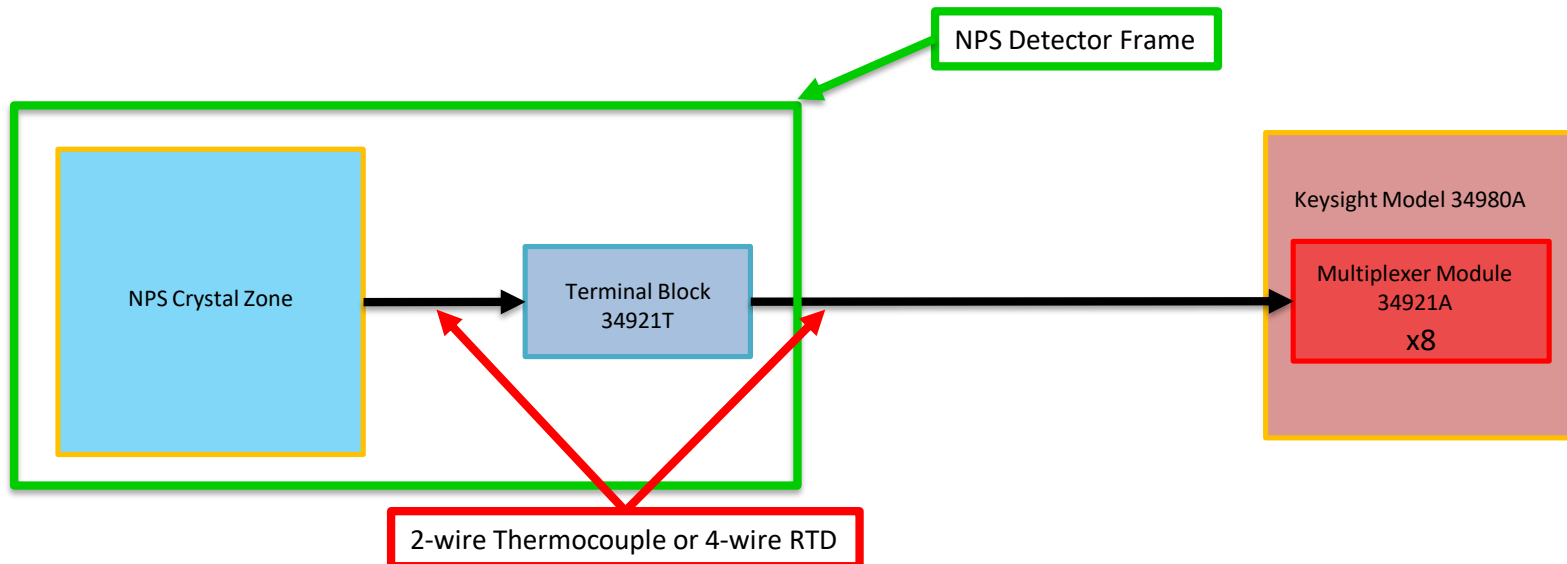


PMT Status pop-up screen

- LED for each channel (1080) will blink if there is a fault
- Clicking on blinking LED will open PMT Status pop-up screen
- PMT Status screen displays voltage and current readback
- Also, PMT Status screen has five LED indicators that will display colors for whichever faults have occurred

# Interlock System

- Investigating procurement of spare Keysight 34980A mainframe and 34921A multiplexer modules
- Researching radiation hardness specifications for both components
  - Need to determine radiation level behind shielding



# Conclusions

DSG is working in many different areas



# Thank You