

# Run Plan

- DCM running for getting better calibration on some channels
  - Bias scan? I would say yes. With all DCM leds on, stable conditions?
  - Shall we repeat a calibration scan with varying positions and intensities?
  - -Get more statistic for PDS channels away from diffusers (effect  $\sim 1/R^2$ ) to improve channel gain calibration
  - -Observe any changes wrt to original calibration?
  - -Test Aging? Keep repeating weekly
- Michel trigger development
  - See Zelimir slides
- Aging/Stability - periodic runs Weekly? Configuration standard, but TBD. Might add CRT for this.

# Light vs HV

- Measure/scan the light yield as a function of high-voltage
  - Confirm light yield expected for given E-field, purity
  - Is it related to MicroBooNE anomaly?
  - Could it be space-charge? Because of volume recombination of electron and ions might produce light
  - Do this with cosmic-ray muons in controllable (reproducible) setup, ideally with CRT so the same muons are sampled repeatedly. Do this as a  $f(HV)$ .
  - Make sure PDS response did not change with HV change: to test stability, run DCM with a sufficient statistics at each HV value
  - **Did we have the PDS running now during HV scans?**

- I'll update the sheet, need help on time needed/conf to be used
- [https://docs.google.com/spreadsheets/d/1Wrbo0-DLiKRtKgW4N8wxsgImX2qjeN4P9b\\_VQLijeJw/edit#gid=0](https://docs.google.com/spreadsheets/d/1Wrbo0-DLiKRtKgW4N8wxsgImX2qjeN4P9b_VQLijeJw/edit#gid=0)