ND-LAr Module-0 test run-2 on Cosmics
June 21-27, 2021

*Igor Kreslo for DUNE ND-LAr, 24.06.2021*
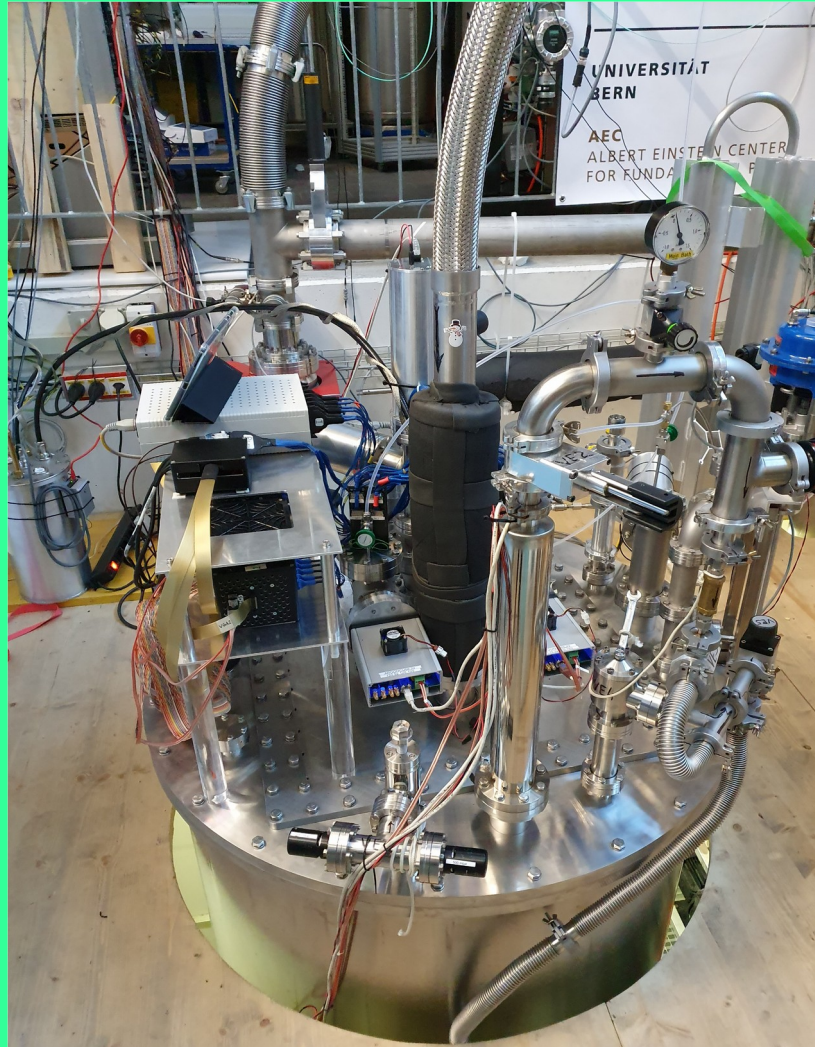
Test objectives

1. Reach the purity with piston purge.

2. Take some more LED pulse data for pulse shape analysis for LDS

3. Measure noise spectrum on the field shell shunt.

4. Gradually lower cooling flow till we have boiling at the ASICS -define the limit

5. Measure noise spectrum on PACMAN analog monitor

6. Take data with trigger from 1 to 4 pixels via analog monitor (& signal from LDS)

Test progress

1. Reach the purity with piston purge.

After ~200 gas volume exchanges,
the H2O level dropped below 1 ppm and after filling and recirculation
for 1 day we are at **2.2 ms life time**.

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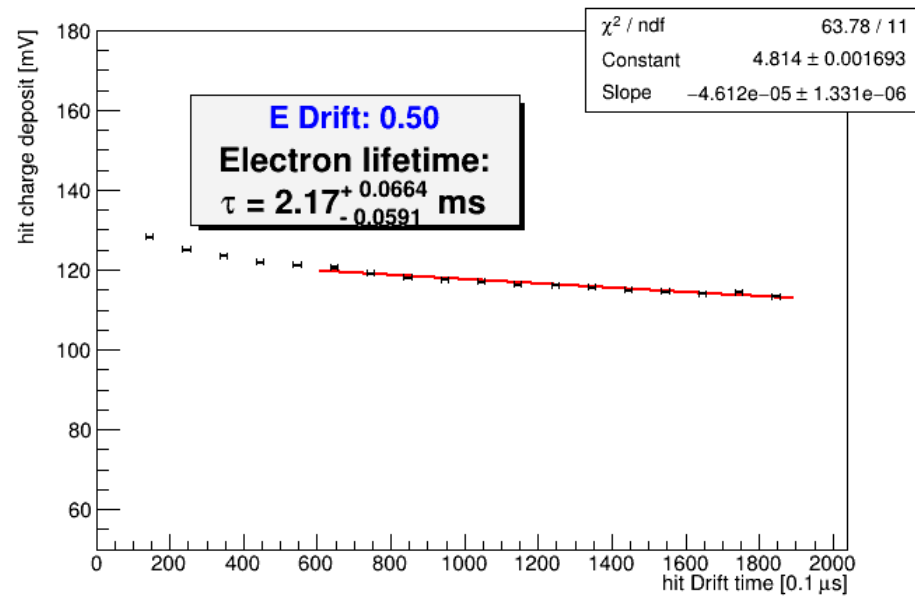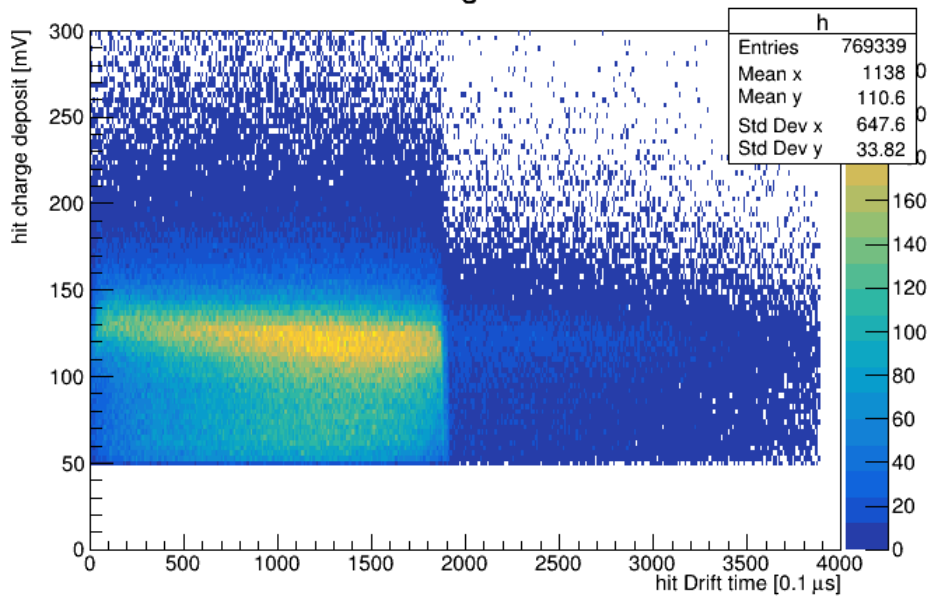for 1 day we are at **2.2 ms life time**.

Test progress

2. Take some more LED pulse data - done.

3. Measure noise spectrum on the field shell shunt - done.

10 MHz clock

45 Hz VFD
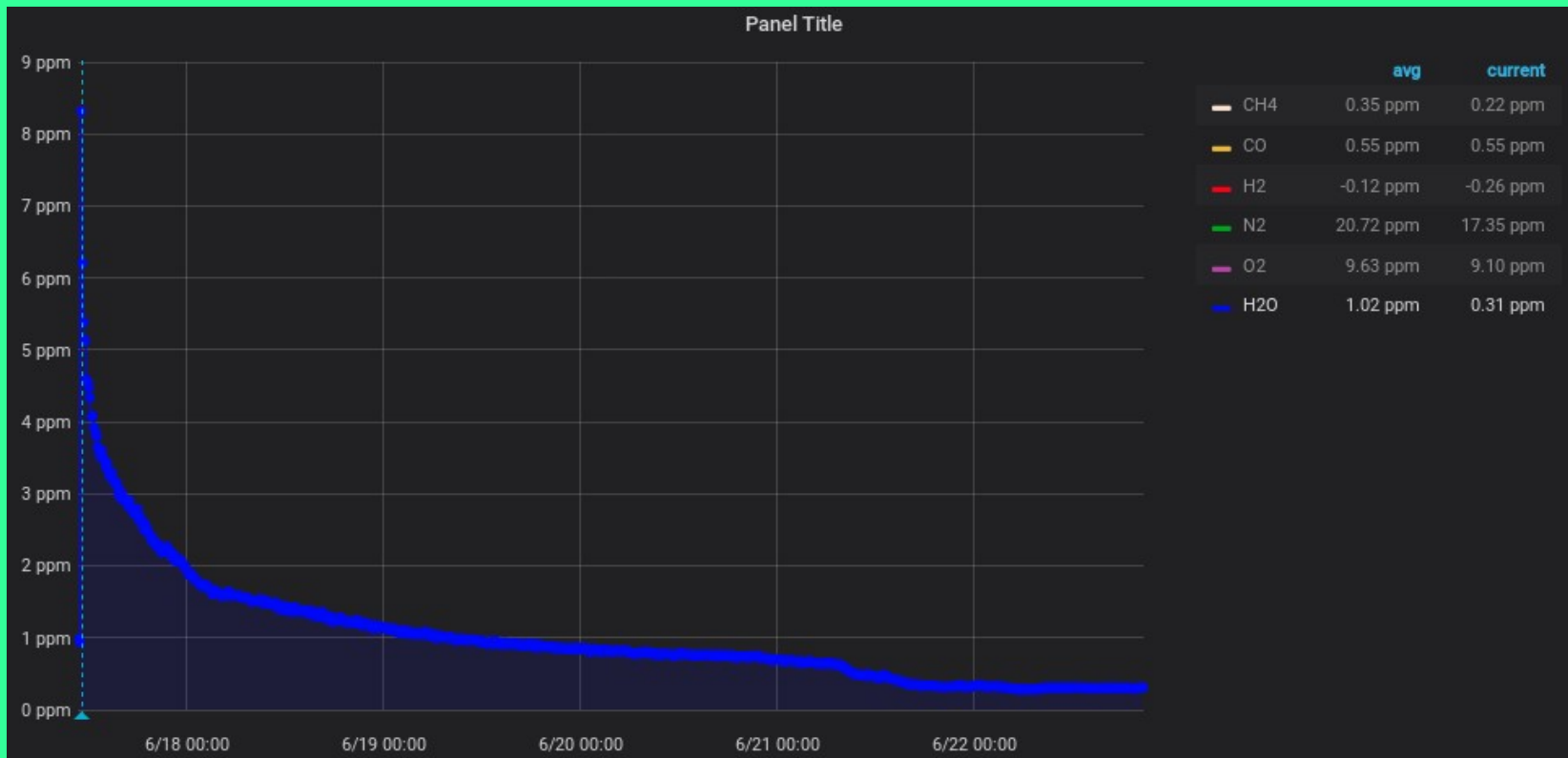
Test progress

4. Lower cooling flow till we have boiling at the ASICS - to be done today/tomorrow

5. Measure noise spectrum on PACMAN analog monitor - to be done today/tomorrow

6. Take data with trigger from 1 to 4 pixels via analog monitor
(& signal from LDS) - to be done today/tomorrow

Overall - we are on schedule. Warmup is planned on Saturday-Sunday.