

## Thursday 15/8:

- Cryostat pressure brought back in 45mbar overpressure to get calm conditions for the CRP tests → demonstrate CRP HV working conditions in calm LAr surface conditions first and then try with bubbles

(safety alarm at 10:20 with hall evacuation until 11:00)

- Continuation of CRP and grid tests (cameras off, PMTs taking data) → grid tests show a limitation to about 3 kV on the 4 CRPs  
After investigation it is seen that this is due to the presence of Ar in the SHV connectors of the grid cables, the gas is brought by the cables themselves from the cryostat (demonstrated with Ar sniffer) ELOG: <https://pddpelog.web.cern.ch/elisa/display/174>
- Continuation of LEM HV tests → 2.5 kV operation achieved ELOG: <https://pddpelog.web.cern.ch/elisa/display/173>

Cryostat back to normal pressure 17:50

- Preparation of connection boxes for the SHV cables for CRP3 and 4 to mitigate the argon problem

## Friday 16/8:

6:50 Cryostat pressure brought back in 45mbar overpressure to get calm conditions for the CRP tests → demonstrate CRP HV working conditions in calm LAr surface conditions first and then try with bubbles

- Test of connection boxes for the grids of CRP 3 and CRP4 → with the amount of glue available yesterday to seal the cables the boxes still tend to fill with argon. Operation with an external air flow to remove Ar CRP4 reached 6.9 kV
- Grid of CRP4 operated at 5kV with also cathode voltage at 50 kV, luminescence signals seen with PMTs
- Continuation on the work to get the final version of the connection boxes filled with glue for CRP1,2,3,4 → get them ready for Monday