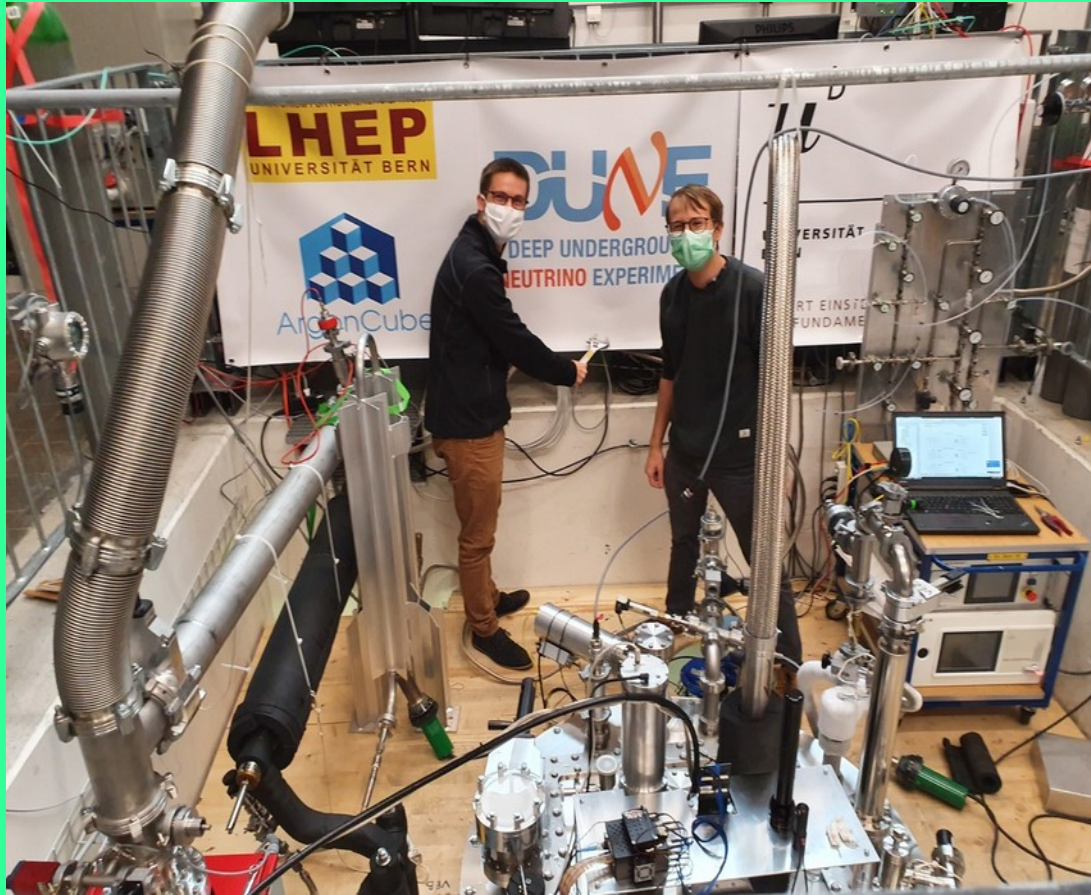
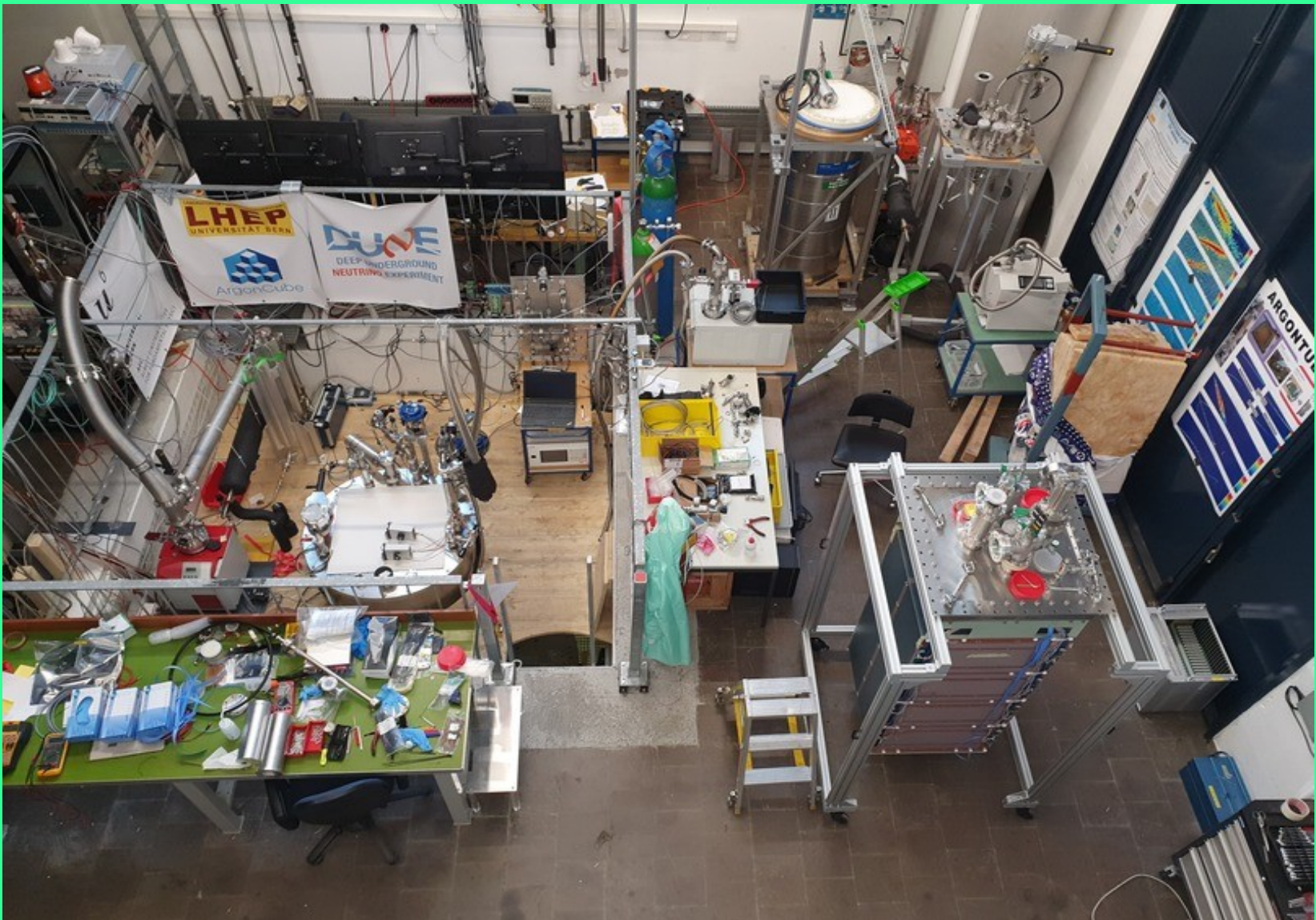


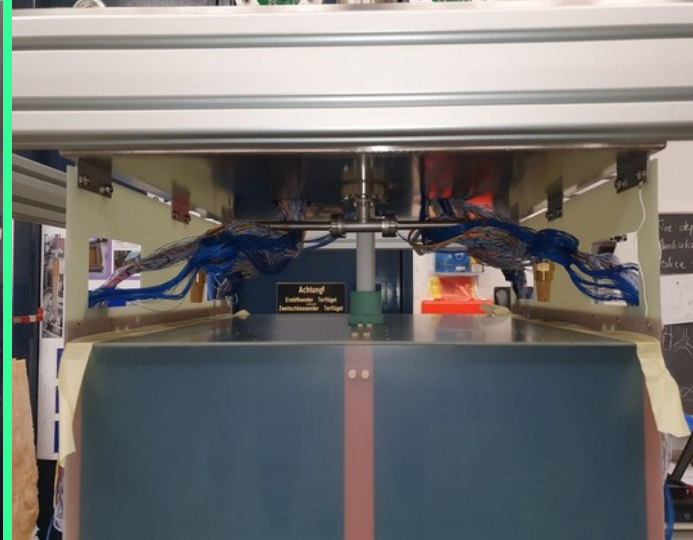
SingleModule test run preparation Status for March 18, 2021



Module cabling (March 11-12)

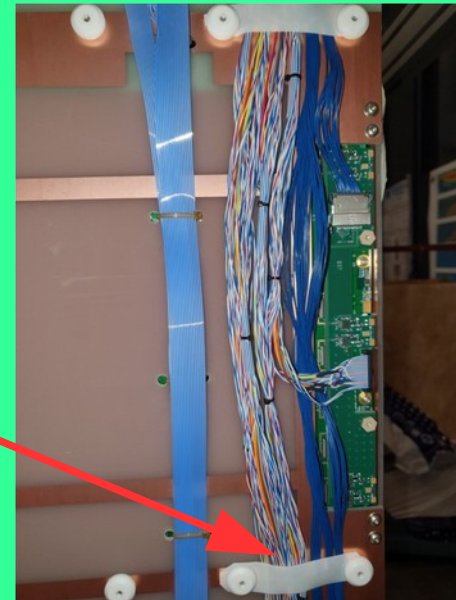


Module cabling (March 11-12)



Cables are wixed with copper wire

Covered with teflon tape (not tight!)



Temporary position in the cryostat (March 12)

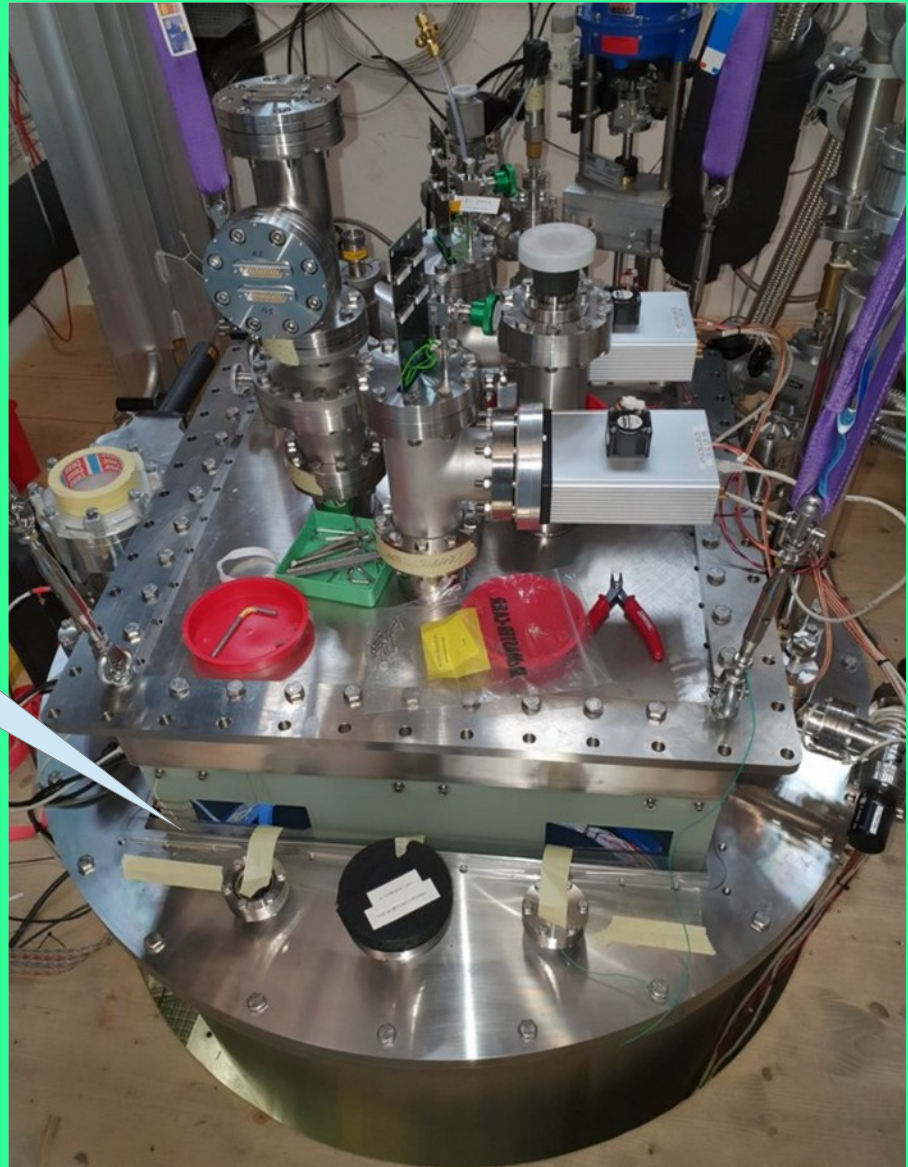
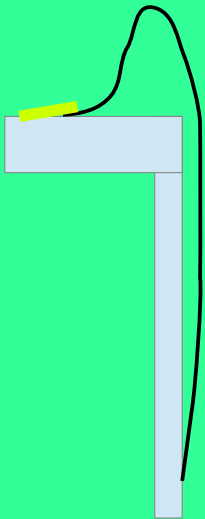
The module is leveled and inserted

First connectivity tests - OK

LArPix Hydra configuration - OK

Pedestals and leakage current runs

Mylar foil to assist
insertion



Insertion to the sleeve (March 14)



Mylar foil to assist
insertion



Current status Module insertion (March 17)



The module is installed with no difficulties

Cable connectivity tests are OK

Slow control 100% operative

Powered LArPix tiles

LArPix Hydra networks built

Tests according to the LBNL program are in progress...

Current status

Thermal behavior (March 17-18)

The module is now in a very isolated environment. Tiles are powered and the temperature starts to rise.

We watch this via module slow control equipment.

Slow Ar gas flow (~3 slpm) is established via the cryostat bottom to keep temperatures under control. This morning we increased the flow to ~7 slpm



Temperatures reached max at ~27.5C and flattened.

We continue testing tiles and during breaks - LRS.

Run schedule (Version March 18)

now - 20 Mar Warm tests of CRS, LRS, Slow Control

20 Mar - 24 Mar evacuation of the detector, leak fixing

24 Mar - 26 Mar cooldown and filling with LAr

26 Mar - start of DAQ, calibrations, first HV @ 0.25 kV/cm

27 Mar - 28 Mar HV @ 0.5 kV/cm, taking cosmic data + special runs (see run plan)

28 Mar HV scan for charge-light anticorrelation study

29 Mar - 1 Apr HV @ 0.5 kV/cm, taking cosmic data + special runs (see run plan)

1 Apr - last data run, start emptying detector

4 Apr - Detector is at room T, 24-h shifts are finished.

Requests for test program are welcome !

Reference documents : https://wiki.dunescience.org/wiki/ND_LAr_Test_Runs