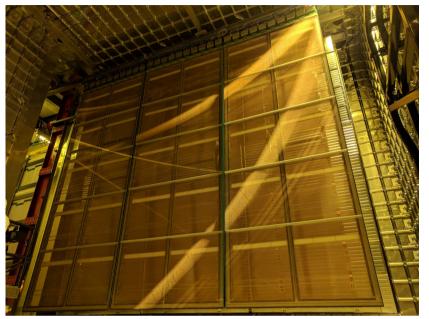
EHN1 status report

ProtoDUNE-SP ITI Meeting February 22nd, 2018

APAs' world

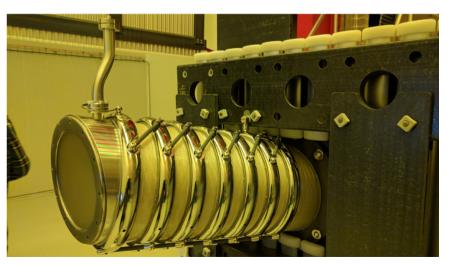
- ➤ APA 2 was extracted from the cryostat to remove plastic shims from the CE boxes, all boxes tested, and the APA re-inserted in the cryostat on Tuesday
- ➤ Warm cold box test of APA3: all CE boxes working, still some wireplane bias related noise on a small fraction of random wires (~10-20). Can this noise be filtered out?
- ➤ Final checkout of APA 3 (pictures, HV lines continuity check, nitrogen flushing) done on Wednesday morning. Wednesday afternoon APA 3 pushed in the cryostat: first ProtoDUNE wireplane is in the cryostat
- ➤ All three APAs are now hanging from the yoke, trolleys removed, their heights and position on the bridge beam fixed
- ➤ APA 4 arrived on Tuesday. Will be unpacked next week





Everything but APAs

- > First End Wall inserted in the cryostat yesterday
- > Beam Plug installed and its position on the panel surveyed
- ➤ Purge pipes welding on top of the cryostat ongoing to be completed tomorrow
- Tee Pipes (holding CE and PD flanges) for south drift installed
- ➤ Identified false floor panels inside the cryostat to be reshaped to allow for field cage deployment
- > BU firmware re-installed on Cold Box WIBs for DAQ tests





- ➤ Scaffolding for field cages deployment identified and already available for us
- ➤ A fraction of CE boxes and PD bars for APA 4 are assembled/scan. The remaining ones are already at CERN and will be prepared for installation in the next days

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Near future schedule

- > Today/tomorrow
 - > Put APA plane in position, start cabling with Ken, Manhong, Ash River crew
 - ➤ Electrical and mechanical connection of CPA plane, CPA QA tests
 - ➤ Assembly of Beam Plug end wall (tomorrow, 9:00 am)
 - > False floor modification for first drift volume
- ➤ Week February 26th March 4th
 - ➤ Move APA 4 into the Clean Room (Monday-Tuesday)
 - > APA 4 wire tension measurement and PD installation
 - > APA 1-3 cable routing (cold part) / work on warm part of the routing
 - > CPA plane in position, QA tests
 - > False floor modification for first drift volume
- ➤ Weeks March 5th March 18th
 - ➤ APA 4 CE installation, insertion in the Cold Box (week March 5th- 11th)
 - > APA 4 warm (week March 5th- 11th) and cold (week March 12th- 18th) tests
 - Field cage deployment + End Wall 3 and 4 assembly (order still to be defined)
 - False floor modification second drift volume