

Status of RichWall and MWPC's

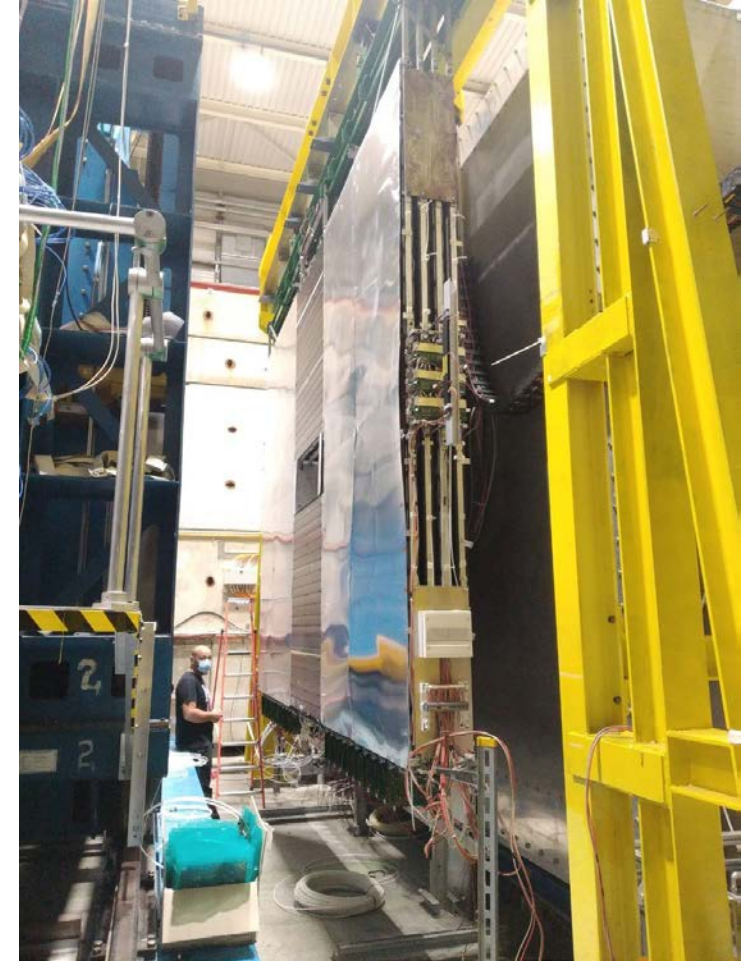
The Torino group

RichWall preparation

A big effort to be ready for the 2021 run. RW completely disassembled, repaired and re-assembled



Many thanks to our Dubna JINR colleagues and to Stefano for their precious help!



RichWall present situation

All the planes are under gas flow.

- After the final assembly, we had some problems in flushing the whole half planes. Now fixed
- Planes gas supply have been subdivided in single panels, in order to disentangle possible problems
- We will redo the gas panel with bigger bubblers to allow for a slightly higher pressure in the future

All the FEs have been installed

- We are now checking the FEs
- Some problems in the RO with missing FEs are being fixed
- Preparing for commissioning

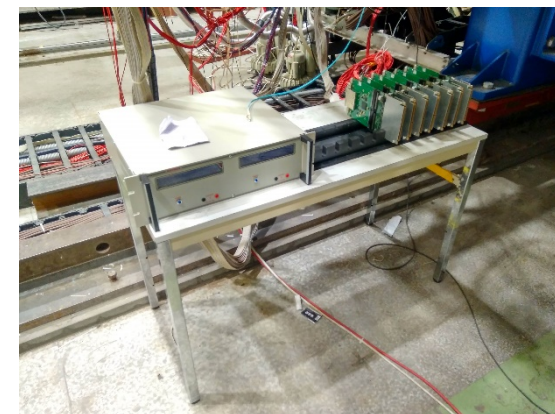
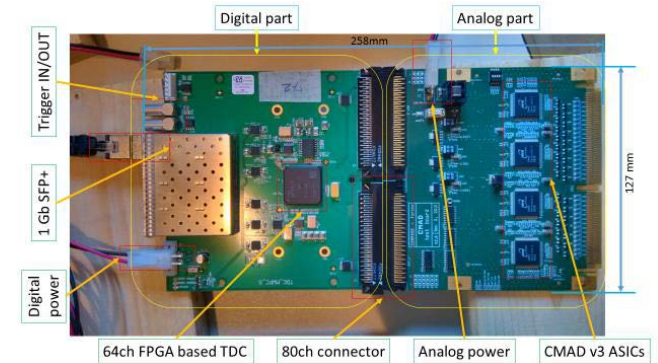
The detector have been surveyed in the final position

The preliminary 2021 calibration will be provided soon

MWPCs preparation

The final planned setup is fully equipped with the FEs

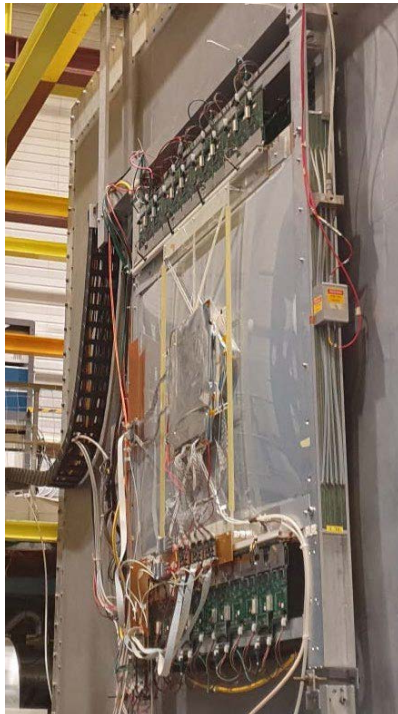
- We are working to solve some RO problems we have with some FE cards. More people at CERN next week to fix it if necessary
- Due to a tight schedule for the software integration and a Firmware preparation delay we decided to operate the PA05 in the 2021 RUN with standard FEs
 - ❖ The risk of integration is reduced
 - ❖ We face some additional pressure to ensure the spares as we can not count on the 12 triplets we were expecting to use on the other chambers
- The new FEs will be operated next to the chamber to complete Firmware tests and the software integration



MWPCs preparation

Unfortunately, we had another accident with a broken Mylar window on one MWPC.

- A temporary repair had been done using the Aluminium scotch to reinforce the gas wall and screen the EM noise
- Mylar substitution on several MWPC's is foreseen for the winter shutdown



Chambers have been surveyed in the final position

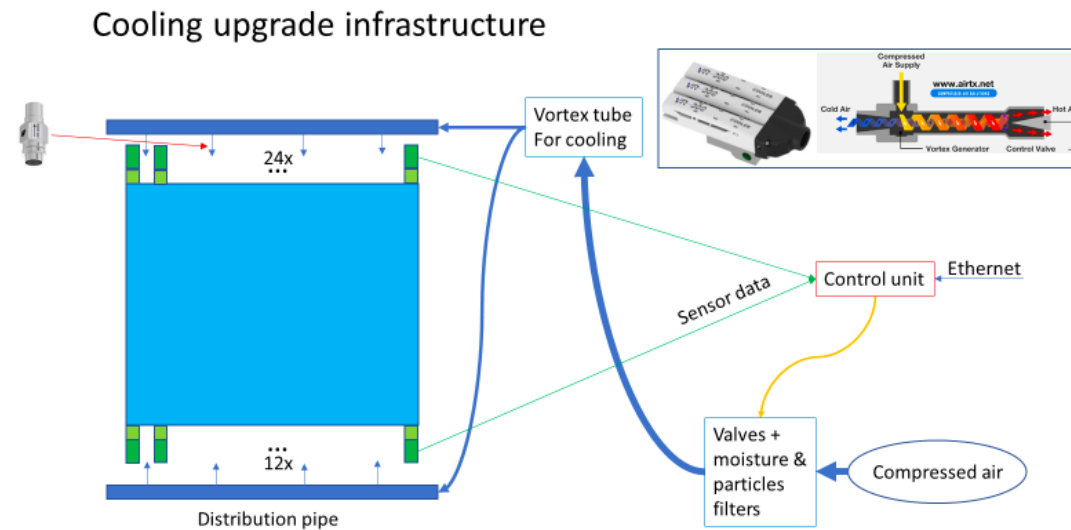
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MWPCs preparation

A new cooling system that we think can increase the RO stability have been installed and tested on 1/3 of a chamber's FEs

The production of fresh air is good

We are considering to equip a full chamber with this cooling system as a test for the future



13/07/2020

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The End