Status of RichWall and MWPC's

The Torino group

The status at the **last TB** (8 February 2022)

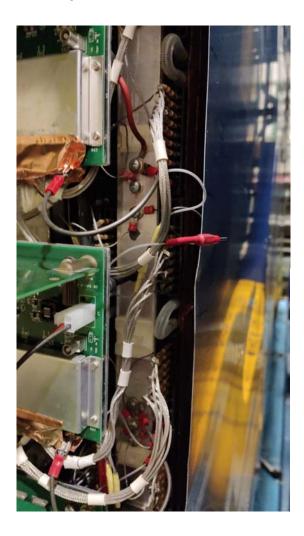
Conclusions

- The work has been started on both the RW and the MWPCs.
- ➤ The operations on the RW may be expected to last for ~1 month in case no serious problems are discovered
- ➤ The refurbishment of the MWPC will most probably take 1,5-2 month if we decide to change the external window on more than one chamber

RichWall

The work on RichWall is over:

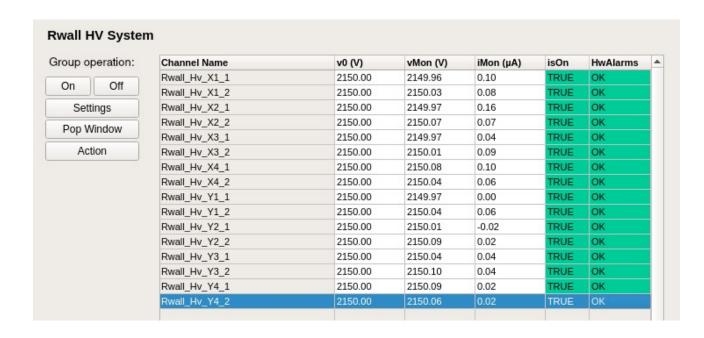
- A full check of the gas system solving the gas issues
- A full check of FE electronics connections
- A full check on LV
- A full installation of the FE EM shielding
- A full check and repair of the HV distribution



RichWall

We are flushing the Gas already in the final mixture since 2 weeks

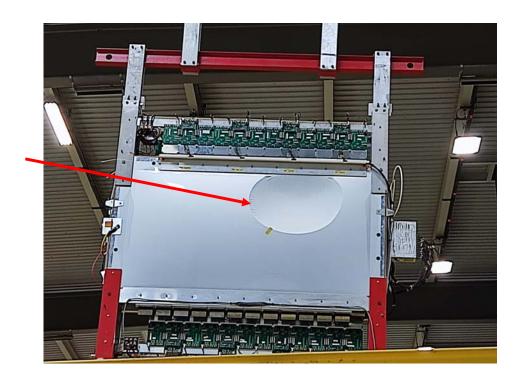
All HV tested and ok:



Now waiting for the beam to have more details on the different channels

Main goal was to fix the HV instability on PB06

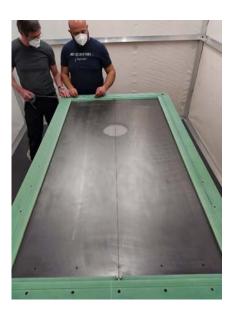
A clear problem on the AL-Mylar of the external windows. A detachment between the AL and Mylar layers caused the HV problems.



Main goal was to fix the HV problem on PB10







MWPC

After the repair, an HV test with Nitrogen in the "clean" room went well, now flushing the chamber in the final position. From today on, we switched for the nominal gas for the final test. This test was not possible in the clean room, as the proper mixture was not available there







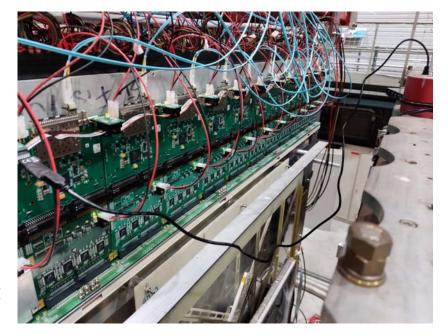
The PA05 chamber with the new iFTDC & CMAD based FEs has been instrumented

Done:

- The FEs loading has been integrated into the config server
- The equalisation of the thresholds has been tested
- The new PSs had been installed in the experimental hall

Ongoing:

- We need to finish the Raspberry based firmware loading infrastructure
- We need to move the 3x DHmx used with our chamber into our crate
- We need to check the COOOL&CORAL mapping and integration, waiting for the firmware with the final mapping of the TDC channels



RW and MWPC refurbishing: conclusions

- Most of the planned works foreseen for RW and MWPC are over.
- A final word on the succes of these interventions will be only after the start of the run.
- Next interventions are foreseen during the week 02.05.22, the time will depend on the
 accessibility to the area
- A big effort in terms of manpower and money
- Thanks to Stefano and all the people who helped us during these works.