## Update on the MWPCs status

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# MWPC @ Dry Run (update 09.12.20)

### Experts:

- The expert, most probably, will be able to come for a couple of days to power the FEs
- No presence is foreseen during the DryRun as on-call/repair
- Simple repairs/checks could be done by the experts on-site.

Was not possible

### Goals:

- We would most probably introduce only a small part of the new elements (part of the new cooling)
- Running the available FEs and collect the failure statistics and noise figures

#### HV:

We will try to switch all ON by our expert to check the power supplies

## The main ongoing activities 20.09.20

Prototype MWPC chamber with Cooling for the standard Pulser for the rates tests the iFTDC based readout chambers Digital FE preparation Concept validation ☐ Concept validation ■ Analog FE preparation ☐ Installation Elements preparation ✓ PS procurement ☐ Installation on the MWPC Monitoring Infrastructure preparation ☐ Feedback loop control DAQ integration Monitoring software Monitoring of the performance

09/12/2020

# The main ongoing activities 09.12.20

Prototype MWPC chamber with the iFTDC based readout

- ✓ Digital FE preparation
- ✓ Analog FE preparation
- Need calibration
- ✓ PS procurement
- > Delivery postponed
- Infrastructure preparation
- DAQ integration
- Monitoring software

Cooling for the standard chambers

- ✓ Concept validation
  - The vortex tubes were tested
- ✓ Elements preparation
- Installation on the MWPC
- ☐ Feedback loop control
- ☐ Monitoring of the performance

Pulser for the rates tests

- ✓ Concept validation
- Installation
- Monitoring

# MWPC upgrade (update 09.12.20)

- ❖ The analog cards are since few days in Torino
- ❖ We plan to start the calibration of the cards at latest in 01.2021
- The preparation of the pulser is ongoing after a break due to the Covid restrictions
- ❖ The working group has finally acquired two new members that were restricted in participation in October/November period

We will need to organize dedicated or in parallel with other groups test of the RO and DAQ integration of the new equipment prior to the 2021 commissioning period





