

## Cold Box operations (from October 24<sup>th</sup>)

- After the insertion of the CRP on the cold box the top electronics system was moved on Thursday (October 24<sup>th</sup>) from the integration area to the roof of the cold box and became fully operative by Thursday evening with data taken/analysis/data transfer.
- Friday to Sunday were dedicated in studying the noise and investigating the general grounding of the cold-box.
- It was found that the bottom electronics introduces a strong coherent noise on the strips connected to the top electronics which can go up to a factor 10 the standard noise level measured in the integration test.
- It was shown that this noise can be removed by switching off the bottom electronics and uncabing the power cables from the Warm Interface flanges of the bottom electronics
- This at the moment would be the only operative condition in order to have decent data not polluted by external pick up. This implies separate data taking periods for top and bottom electronics
- Also the bottom electronics looks to be in worse conditions: the noise is about a factor of 2 higher than the one in the NP04 cold box