



Contribution ID: 13

Type: **not specified**

IST, SCT and Powering Test for the HWC of the HL-LHC IT String (WP16/TE-MPE)

Friday 27 September 2024 16:25 (30 minutes)

The powering tests for the Hardware Commissioning (HWC) of the HL-LHC IT String circuits constitute an important preparation phase for the HWC in the HL-LHC as the last part of the LS3. This talk gives an overview of the String Validation Program concentrating on the phases preparing and after the first cryogenic cool-down of the string of magnets. It shows the work done to prepare the powering tests and the acceptance criteria for the HL-LHC circuits and concluding by a brief overview of the software used for the powering tests in this HWC phase as a recap from the two previous talks during the String day III.

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Session Classification: Hardware Commissioning of the HL-LHC IT String