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Warm Powering and Adequacy with Respect to Requirements

Monday 9 September 2019 10:00 (30 minutes)

In order to achieve the requirements of the HL-LHC optics and in adequacy with the LHC machine, the power converters have strict requirements on performance. This talk presents the requirements of the circuits (current, ramp rates, acceleration rates, precision, accuracy, etc.) and translates them into power converter requirements (current, voltage, control and measurement class). Moreover, the required warm cable resistances and configuration are briefly discussed to respect the cycle operation requirements.

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