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Statistics on accuracy and reproducibility of magnetic measurements of the LHC magnets at Cern

For the total of the 1706 LHC superconducting magnets, between 10 to 20 % of dipoles, SSS's and special SSS's will be magnetically measured at cold. This small fraction of magnets is sufficient as the warm/cold correlation has been established and is controlled through the production process. In order to verify the warm/cold correlation with required precision, the field quality measured at cold for the 10 to 20% magnets needs to be determined with high accuracy. A detailed analysis of the accuracy and reproducibility obtained with the equipment used for the past two years during series qualification tests will be presented.

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