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How the magnetic measurements and the Reference Magnet System (RMS) will be used for commissioning ?

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The talk gives a summary of data (and their location) as is planned to be collected in warm and cold conditions in the various LHC magnets. This data can and shall be made available for start-up. I will present a view on how the data can be used, in practice, to prepare for injection, forecast ramps of the main magnets and correctors. To achieve this we need information from standard tests, that provide information on magnets field quality to be compared directly to production specifications and for characterization of the static behaviours, as well as extended tests that are presently performed on a one-by-one basis to ascertain scalings in the injection behaviour, and to verify long term changes. One of the matters presently investigated is snap-back scaling that could provide accurate forecast at the beginning of the ramp. I will detail on this. Finally, as most of these ideas were discussed at the July RMS review, I will give a status of the related activities.

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