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What is the Impact of Hysteresis on Orbit Correction and Feedback

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Orbit correction is a fundamental feedback action that is applied to the beam in order to counteract disturbances due to misalignments, ground motion, dynamics effects, etc. Threading the very first LHC pilot beam through the 26.7 km ring relies on the ability to properly correct the beam trajectory. The requirements for orbit correction on transfer functions and hysteresis of the LHC orbit corrector magnets will be presented and compared to the first magnetic measurement results. The requirements will be presented both for manual corrections by the operators and for real-time corrections by a feedback system.

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