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Hysteresis in magnet correctors versus tune and chromatic correction

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As a follow-up of the discussions initiated at the last LHC Project Workshop, this contribution will concentrate on the aspects of the magnetic behaviour of Trim and Tuning Quadrupoles, as well as spool and lattice Sextupoles, which may be relevant for the machine operation. The measured magnetic hysteresis and its possible influence on setting errors during operation will be presented, in particular the real-time compensation of decay and snapback in the main magnets, and the reproducibility between runs. A detailed characterization of minor hysteresis loops is presented, to explore potential effects on the stability of the feedback.

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