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Measurements of warm double aperture quadrupoles for LHC

For the cleaning insertions(IR3 and IR7)of the LHC,48 warm quadrupoles type MQW have to be installed.Those double aperture magnets have been measured according two types of configurations(DF and FF).Due to the large dynamic range of the magnet currents between injection and ejection,the characteristics at injection are very sensitive to the demagnetization cycles.The problems encountered are described as well as the performances achieved.

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