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PM & Fe Material Characterization for PETRA IV DLQ Prototype Magnets

Material evaluation measurements for soft iron and permanent magnets have been carried out to meet the requirements of the dipole magnets. In particular, three different samples of soft iron material and permanent magnets of SmCo grade are experimentally analyzed and compared with Radia simulations. The analysis and comparison of the measured data will ensure the requirements of field quality and tuning margin for the case of permanent magnet dipoles.

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