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Design and measurent of a 2.4 tesla superbend magnet prototype at SSRF

Tuesday 29 August 2017 13:15 (1h 45m)

Four normal conducting 2.4 tesla “superbend”magnets will be installed in the phase-II beamline project at Shanghai Synchrotron Radiation Facility(SSRF), replacing the current 1.27 T ones. We present the design and the magnetic measurement results of the first prototype magnet in this paper. Also described is a newly-developed field shimming method which has shown its efficiency and simplicity during the shimming of this magnet.

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