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Design and measurement of the septum magnet for Hefei Advanced Light Facility

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The eddy current septum magnet composed injection system in the Hefei Advanced Light Facility (HALF). Leakage field from the septum magnet adversely affects the stored beam and can be reduced by shorter driving current pulse width. Theoretical explanations were proposed for this phenomenon. The effects of different drive current are simulated with the OPERA-2D TR analysis module. Measurement results are also given.

Footnotes

Paper preparation format

Word

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Asia

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