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Development of a pulsed magnet measurement bench using the stretched wire method

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In the scope of the renewal of its injection systems, the ESRF-EBS has decided to implement a new scheme using Non-Linear Kickers (NLK) magnets. These pulsed octupole like magnets are extremely sensitive to any misalignment of the conductors carrying the currents resulting in a degraded magnetic field quality. It is then important to characterize precisely the transverse magnetic fields of these magnets to avoid any perturbation during the injection process. A new method to measure pulsed magnetic field is being developed at the ESRF-EBS readapting the classical method of the stretch wire bench for permanent magnet. This paper presents the advancement of this project and the first results.

Footnotes

Paper preparation format

LaTeX

Region represented

Europe

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