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Fast Kicker for High Current Beam Manipulation in Large Aperture

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Pulsed deflecting magnet is under development at BINP with the following parameters: the field strength is 1 mT*m in the 5 cm aperture, rise/fall time is <15 ns, and the pulse duration is about 200 ns. In our design the wire electrodes are used instead of conventional plate electrodes. A low magnet inductance provides short the rise/fall time. The report describes the magnet development, production and field measurement.

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