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Magnetic compression method for macro pulses of relativistic electron beam

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We developed a magnetic compression method for relativistic electron beam macro-pulses. Our device, with a significantly larger transfer function R_{56} compared to the classical chicane structure, enables nanosecond-scale compression of relativistic electron pulses using a compact apparatus measuring just a few meters. This paper introduces the principles of this compression method and presents the results of dynamic simulations.

Footnotes

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Paper preparation format

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Asia

Primary author: LI, An (Tsinghua University in Beijing)

Co-authors: ZHA, Hao (Tsinghua University in Beijing); SHI, Jiaru (Tsinghua University in Beijing); GAO, Qiang (Tsinghua University in Beijing); CHEN, Huaibi (Tsinghua University in Beijing)

Presenter: LI, An (Tsinghua University in Beijing)

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