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A 50 kV pulse generator for fast kickers

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Brookhaven National Laboratory has recently been selected as the site for the Electron-Ion Collider (EIC). The EIC will consist of two intersecting accelerators, one producing an intense beam of electrons, the other a high-energy beam of protons or heavier atomic nuclei, which are steered into head-on collisions. One of the sections of the EIC beamline will require a hadron injection fast kicker system. RadiaBeam is developing GaN-based pulser with ± 50 kV voltage amplitude, < 4 ns rise and fall times, 40 ns pulse width. In this paper, we discuss the development progress.

Footnotes

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