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An IGBT pulser for the nonlinear injection kicker at Taiwan Photon Source

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A test unit pulser for the proposed NIK (nonlinear in-jection kicker) project at TPS (Taiwan Photon Source) was fabricated in order to provide uniform kick strength applying onto the injected bunch train. This newly built flattop pulser gives much improved drive current pulse-shape in comparison with previously used half-sine pulser. This flattop pulser will result in high injection efficiency and provide adjustable capability in terms of bunch train filling pattern. In this report, we briefly described the status of this IGBT pulser. Its engineering performance is presented.

Footnotes

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Region represented

Asia

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