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Bunch-by-bunch transverse position measurement during injection

Thursday, 11 May 2023 16:30 (2 hours)

Bunch-by-bunch systems are developed at the Taiwan Light source and the Taiwan Photon source to monitor the transverse position and filling pattern. This system consists four channels with 500 MHz sampling rate which synchronizes with the radio frequency of the accelerator. This system is used to diagnose the injection transition due to the kick mismatch and beam oscillation coming from the damped betatron oscillation and wake field.

Funding Agency

Footnotes

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Yes

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