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Transverse feedback system commissioning for hybird operation mode in SSRF

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In SSRF phase II upgrade project, , a specified hybrid bunch was designed to be injected up to 20mA in Hybrid Filling Pattern. Although it is currently unclear to what extent the transverse instability would affect the accumulation of the hybrid bunch current , the beam-line station still hopes to obtain higher luminous flux. For this purpose, an independent feedback loop has been added to the transverse feedback system to suppress the transverse oscillation caused by the hybrid bunch. This paper would describe the system commissioning and related experiment.

Footnotes

Funding Agency

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Yes

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