

Intra-pulse RF feedbacks for normal conducting cavities with femto-second precision

Thursday 12 December 2013 09:45 (13 minutes)

In this contribution, we will present first results of single cavity RF control based on MTCA.4 at REGAE. With the new system design we reduce the system latency down to 600ns, with still room for improvement. This new latency reduced design, allows us to implement an intra-pulse RF feedback for the normal conducting RF Gun at REGAE. The inloop RMS pulse to pulse jitter were reduced below 30fs.

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Session Classification: Applications in research facilities

Track Classification: Applications in research facilities