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Progress towards nanometre-level beam-position stabilisation at ATF2

The Feedback On Nanosecond Timescales (FONT) Group has developed low-latency beam feedback systems for providing bunch-by-bunch beam position correction capability for Linear Colliders. Prototype feedbacks have been deployed and tested at the KEK ATF2 facility, where they have been extended for use in stabilising the vertical position of the electron beam in the upstream and interaction-point (IP) beamline regions. We report progress towards nanometre-level stabilisation at the ATF2 IP using feedback and feed-forward systems, as well as upstream and IP beam correction schemes, utilising high-resolution stripline and cavity BPMs.

Experimental Collaboration

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