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FCC-ee Feedback System Design Update

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The bunch by bunch feedback systems for FCC-ee shall be designed on the basis of the experience developed working on the lepton circular colliders in the last two decades. Along the past years a common way to approach these systems has been carried on for PEP-II, KEKB, DAFNE, and, later, for SuperB and SuperKEKB. Nevertheless the advance of the technology as well as the very high performance required by FCC-ee specifications recommend to evaluate improved project scenarios.

Three compatible but with different complexity level designs are presented in this proposal in order to be able to damp instability grow rates slower than 10 revolution turns (first option), or up to 3 revolution turns (second option) or even faster than 1 revolution turn (third option). Anyway an R&D program plan will be necessary for the first two design options. The third and more advanced project scheme will require very strong R&D efforts.

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