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Test of the iTech XBS-FE module with the Spark BPM electronics

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We have acquired 2 XBS-FE modules from iTech to perform tests with real beam signals and to evaluate their performance for enhancing the long-term stability of the Spark electronics, and in particular by reducing their dependence on hardware temperature.

The tests were performed by controlling the switching with an home-made controller, with software-based compensation applied externally. Switching was performed at a low frequency, each full cycle lasting 8 seconds.

The results of these tests are presented here.

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