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RF and digital signal processing of HOM and cavity BPM signals

Monday, 2 February 2015 15:00 (30 minutes)

Summary

A system for processing high frequency (multi-GHz) signals from HOM couplers and cavity bpms will be discussed. The system uses custom analog down mix electronics to shift the signal of interest to an intermediate frequency which is subsequently digitized and then further processed. The details of the custom electronics and different digital signal processing schemes will be discussed.

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Session Classification: WP 4