

## **Precision analog measurements in high speed MTCA.4 crates**

*Tuesday 11 December 2012 14:20 (20 minutes)*

One of the major benefit of an MTCA.4 system is to combine high-speed digital data processing AMC boards with high precision analog signal conditioning RTM boards. In this presentation we show high precision measurements using different grounding configurations, particularly for AMC and RTM Z3 ac-coupled differential signal transmission for the detection and regulation of high frequency signals, sampling of pulsed signals and broadband dc-coupled signal conditioning on the RTM. Concepts and sources of distortions for measurements below -80dB will be discussed.

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**Session Classification:** Capabilities of MTCA.4