



Contribution ID: 21

Type: **Vortrag**

Recent Developments in MTCA.4 at DESY

Wednesday 13 March 2013 09:30 (20 minutes)

This presentation gives an overview of the latest developments and measurements in the crate standard MTCA.4 at DESY from different fields of applications. 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 addition we show precision measurements using different grounding configurations, particularly for AMC and RTM Zone 3 ac-coupled differential signal transmission for the detection and regulation of high frequency signals and sampling of 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: Vorträge Mi-1