

## **A demonstration of a mTCA.4 crate used as a high precision data acquisition and control system with optical PCIe Gen.3 up-link.**

*Wednesday 10 December 2014 14:30 (15 minutes)*

The talk will contain an architecture of a MTCA.4 crate, including an advance backplane for the usage of an extreme precise timing and clock distribution. The crate, including the MCH with the optical PCI-e Gen.3 uplink, the fiber optic cable and the receiving PC board as a unit will be part of a live demonstration.

### **Summary**

With the new precise timing module as part of the new ELMA MCH, the operator can use the slot, which was occupied with the ordinary timing module, for other options.

The connection of MTCA.4 crates with the PC world through fiber optics will open new possibilities in the research environment

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