

Tobias Hoffmann - FAIR Beam Instrumentation Goes MTCA

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While the construction site of the Facility for Antiproton and Ion Research (FAIR) takes shape, the design and set-up of the required beam instrumentation systems is making big progress. At the small Cryring - the test bed for FAIR control system and accelerator component evaluation - the readout of ten beam position monitors with open hardware based FMC ADCs has been implemented. This fully leverages the speed of MTCA and the possibility to distribute trigger signals via the backplane and is currently being commissioned. MTCA is also part of the beam instrumentation upgrade of the beamlines for SIS and ESR. Here counter applications for beam loss monitors and fluorescent screen readout via GigE-cameras have been implemented in MTCA. Together with a brief status of the FAIR project an overview of these and future applications will be presented.

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