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Status of CBM-TOF Detector Control System

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The exploration of the QCD phase diagram in the region of high baryon densities is the primary goal of the physics program of the Compressed Baryonic Matter (CBM) experiment at FAIR.

Charged hadron identification will be performed by a time-of-flight (TOF) measurement with a wall of RPCs.

EPICS is used for CBM-TOF slow control, which includes High Voltage, Low Voltage, Gas System, Front-End Electronics.

High Voltage is supplied by a CAEN HV Create. Low voltage is supplied by a MealWell rack system, and a power distribution box designed by GSI is used to distribute Low Voltage. Also, a gas system which is designed by GSI is controlled by EPICS. To monitor the environment, such as temperature, pressure, humidity in ToF detector, IOC based on IPbus and GBTx link is designed.

During the beam time in mCBM, March 2019, GSI, the control system was used and worked well.

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