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High voltage source control on FODS

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The implementation of the high voltage power supply control system (HVPSCS) for experimental setup FODS(FOcusing Doublearmed Spectrometer) at accelerator U-70 of the Federal state budgetary institution State Research Center Of Russia Institute for High Energy Physics of the National Research Centre "Kurchatov Institute" (hereinafter referred to as IHEP) or for the test bench of the detector components is considered.

The required set of hardware is defined and the appropriate software to operate HVSCS is written in C/C++ codes.

The data acquisition (DAQ) system makes automatic control on HVSCS for data taking run. It allows to get the dependence of appropriate detector parameters on the high voltage supply values and to choose its optimal values for FODS detectors.

The test run results of the HVPSCS are presented.

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