

Welcome to NICA days 2019 and IVth MPD Collaboration Meeting in Warsaw



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Gas System for Test Stand TOF/MPD

The Multi-Purpose Detector (MPD) being currently developed in the V&BLHEP will be used for studies of hot and dense nuclear matter, by detecting particles created in heavy ion collisions. One of the most important systems of the MPD which will be used in identification of these particles is gaseous Time-of-Flight detector, based on the mRPC (multi Resistive Plate Chambers) technology. Parameters of gas environment inside of the detector chambers have major influence on its registration possibilities. That is why ensuring right and stable working environment is crucial for proper functioning of the detector. Advanced and highly automated Gas System based on prepared project will consist of many modules including Mixer, Distribution, Recirculation, Buffer, Purifier, Analysis.

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