Contribution ID: 822

Type: Oral

Project, development and testing of the Gas System of the MPD/Time-of-Flight detector

Tuesday, 10 November 2020 17:15 (15 minutes)

The Multi-Purpose Detector (MPD) being currently developed in the High Energy Physics Laboratory, will allow observations of particles created in heavy ion collisions. One of the most important systems of the MPD which is going to be used in identification of these particles is gaseous Time-of-Flight detector, based on the mRPC (Multi Resistive Plate Chambers) technology. To the formation of final electrical signals lead complex physical processes and the parameters of the gas environment have a major influence on its registration possibilities. Gas System ensuring right and stable working environment, crucial for proper functioning of the detector, will be discussed in the details.

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Track Classification: HEP II - detectors/electronics