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Time-of-flight particles identification in the MultiPurpose Detector at NICA

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The main goal of the MPD experiment at NICA in Dubna is to study hot and dense baryonic matter in ion-ion collisions at energies $\sqrt{S_{NN}} = 4-11$ GeV. For a detailed study of the processes and registration of the slightest fluctuations occurring under these conditions, it is necessary to identify particles produced in interactions with high efficiency. The time-of-flight identification system of the MPD based on the MRPC has characteristics that make it possible to cope with this task as efficiently as possible. The TOF system performance and results of a realistic simulation of hadrons identification are presented in this report.

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