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Particle identification (PID) and prospects for the study of event-by-event fluctuations in MPD

The study of event-by-event fluctuations and the search of the possible critical end point (CEP) require excellent particle identification (PID) over as large as possible phase space volume. Identification of charged hadrons is achieved at momenta 0.1 – 3 GeV/c and for pseudorapidity coverage $|\eta| \leq 1.6$. Results of hadron identification and preliminary possibility estimation of the study of event-by-event fluctuations at MPD are presented in this report.

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