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Identification of charged hadrons in the Xe+Cs(I) experimental run at BM@N

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Relativistic heavy ion collisions at a few GeV energy region provide a valuable insight for the properties of strongly interacting matter at high baryon densities. Studying the yields of various particle species produced in the reaction as well as their collectivity may shed light on the Equation of State of the matter created for the brief moments during the collision. We discuss the methods for the particle identification based on the Time-Of-Flight data from the BM@N experimental facility. We also present the first results for the identification of charged hadrons for the recent physical run on the BM@N experiment with Xe beam and CsI target at the beam energy of 3.8A GeV.

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