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Particle identification in MPD at NICA using machine learning

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Particle identification is important in almost any high-energy physics analysis, but in some measurements such identification becomes crucial. Such analyses are the measurement of direct photon spectra and correlations, where the signal is comparable with possible contamination and the measurement of $e+e^-$ mass distribution as electrons are a tiny part of all tracks reconstructed in AA collision. In this presentation we discuss improvements in particle identification in MPD detector at the future NICA facility that can be achieved by applying machine learning approach for particle identification in MPD tracking system and electromagnetic calorimeter ECAL.

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