

Calibration of MPD Electromagnetic Calorimeter with Muons

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Shashlyk-type electromagnetic calorimeter (ECal) of the Multy-Purpose Detector at heavy-ion NICA collider is optimized to provide precise spatial and energy measurements for photons and electrons in the energy range from about 40 MeV to 2-3 GeV. To deal with high multiplicity of secondary particles from Au-Au reaction, ECal has a fine segmentation and consists of 38,400 cells ("towers"). Given the big number of "towers" and the time constraint, it is not possible to calibrate every ECal "tower" with beam. In this presentation, we describe the strategy of the first-order calibration of ECal with cosmic muons, and discuss this calibration strong and weak points.

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