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Development of V0-finder for the MPD experiment based on the Kalman filter method

Strangeness production in relativistic heavy ion collisions is a signature and a diagnostic tool of quark-gluon plasma (QGP) formation and properties. This is the one of the central topic of the physics program of Multi-Purpose Detector (MPD) at collider NICA. In this work a formalism based on the Kalman filter method for reconstruction of two-particle decays in the MPD experiment will be presented and discussed.

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