

Study of the Electromagnetic Calorimeter for Multi Purpose Detector (MPD) on the collider NICA

Tuesday, 3 October 2017 18:10 (15 minutes)

In design of barrel ECal for collider experiment with non-projective geometry of its modules there are some unpleasant feature such as increase of number of hits at large angles of incidence of the particles coming from beam interaction point.

Part of the hits are separated from main shower and thus are not included in the total energy deposition. This leads to reduction of the total energy of hits collected in the cluster. With increasing the particle incidence angle the reconstruction energy decreased. We propose the projective geometry of the shashlik type of modules for barrel ECal of the Multi Purpose Detector (MPD) on the collider of heavy ions NICA.

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Session Classification: Prototypes, upgrades and concepts