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Shashyk EM Calorimeter Prototype Readout by MAPD with Superhigh Pixel Density for COMPASS II

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The design of the new of Shashyk EM calorimeter ECAL0 for COMPASS II (CERN) is described. Micropixel avalanche photodiodes MAPD-3N with the density of pixels 15000 per square mm and area 3×3 mm manufactured by the Zecotek Company are used as photodetectors. Preliminary results of studying the energy resolution of the ECAL0 3×3 module matrix at the T9 CERN PS test-beam facility are presented.

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