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Electromagnetic Calorimeter for MPD Spectrometer at NICA Collider

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The Multy-Purpose Detector (MPD) is designed to study a hot and dense baryonic matter formed in heavy-ion collisions at $\sqrt{s_{NN}}$=4-11 GeV at the NICA accelerator complex (Dubna, Russia). Large-sized electromagnetic calorimeter (ECal) of the MPD spectrometer will provide precise spatial and energy measurements for photons and electrons in the central pseudorapidity region of $|\eta|$<1.2. The Shashlyk-type sampling structure of the ECal is optimized for the photons energy range from about 40 MeV to 2-3 GeV. Fine segmentation and projective geometry of the calorimeter allow to deal with high multiplicity of secondary particles from Au-Au reactions. In this talk, we report on a design, a construction status and expected parameters of the ECal.

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