

Gamma-quanta and charged particles recognition by the counting and triggers signals formation system of GAMMA-400 space gamma-telescope

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GAMMA-400 (Gamma Astronomical Multifunctional Modular Apparatus) parameters are optimized for detection of gamma-quanta with the energy ~ 100 GeV in the main aperture. Also there are opportunities to detect particles in additional and lateral apertures. Registered events identification procedures details are discussed in the presented article for gammas, electrons/positrons and protons both in low and high energy bands of 0.2 - 10 MeV in additional and lateral apertures and from ~ 20 MeV to several TeV in all three ones. It allows providing energy resolution 8% – 2% for gamma-quanta in low energy region and 2% for gammas and electrons/positrons in high one.

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