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Capabilities of gamma ray telescope GAMMA-400 for lateral aperture

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The future γ -ray telescope GAMMA-400 will provide fundamentally new data on discrete sources and spectra of γ -ray emissions and electrons + positrons due to it's unique angular and energy resolution in wide energy range from 20 MeV up to several TeVs. The gamma-ray telescope consists of the anticoincidence system, the converter-tracker, the time-of-flight system, the position-sensitive and electromagnetic calorimeters (CC1 and CC2), the scintillation detectors of the calorimeter (S3 and S4) and lateral anticoincidence detectors of the calorimeter LD. To extend the capabilities of the instrument to measure Gamma-Ray bursts, Monte-Carlo simulations were performed for lateral aperture of the instrument. The second-level trigger based on signals from CC2, LD, S3, and S4 allows registering of Gamma Ray Bursts in the energy range ~10 -300 MeV with high effective area about 1m^2

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