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Searches of Dark Matter with the GAMMA-400 Space Mission

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GAMMA-400 is a Russian space mission with an international contribution, primarily devoted to the study of gamma-rays in the MeV – TeV energy range. One of the main topic addressed by GAMMA-400 will be the search of possible hint of Dark Matter signal with observation firstly towards the Galactic Center and Dwarf Galaxies. Thanks to a deep calorimeter of novel concept and a state-of-the-art Silicon tracker it will be able to achieve an optimal angular and energy resolution.

Thanks to its configuration GAMMA-400 will be able to study not only gamma-rays but also cosmic-rays, protons and nuclei, with energies up to the knee (10^{14} - 10^{15} eV).

The latest simulation and test beam results and an overview of the mission configuration and scientific objectives will be presented.

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