

PHOTON 2019 - International Conference on the Structure and the Interactions of the Photon. Satellite Workshop: Photon Physics and Simulation at Hadron Colliders.



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Observation of high-energy cosmic photons with new-generation space telescopes

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While the Fermi gamma-ray telescope lives its 11th year in orbit, new particle and gamma-ray space detectors are in operation as DAMPE (Dark Matter Particle Explorer), or are in the development stage as HERD (High Energy Cosmic Radiation Detector) and e-Astrogam. DAMPE was launched in 2015 by a collaboration of Chinese, Italian and Swiss scientific institutions and performs high-quality observations of cosmic electrons, protons, nuclei and also gamma rays up to 10 TeV with good angular and energy resolution. HERD will be installed on board the Chinese Space Station to be launched in 2022 and will perform accurate measurements of energy and direction of cosmic rays and photons. An overview on these and other future experiments and a summary of the main gamma-ray results and expectations will be presented.

Summary

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