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The LHAASO project: from Gamma-Ray Astronomy to Cosmic Rays.

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Despite large progresses in building new detectors and in the analysis techniques, the key questions concerning the origin, acceleration and propagation of Galactic Cosmic Rays are still open. A number of new extensive air showers arrays is in progress.

The most ambitious and sensitive project between them is LHAASO, a new generation multi-component experiment to be installed at very high altitude in China (Daocheng, Sichuan province, 4400 m a.s.l.).

The experiment will face the open problems through a combined study of photon- and charged particle-induced extensive air showers in the wide energy range 10^{11} - 10^{18} eV.

In this talk the status of the experiment will be summarized, the science program presented and the outlook discussed in comparison with leading new projects.

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