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Status, performance and results of the Large-Sized Telescope prototype for the Cherenkov Telescope Array

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The Cherenkov Telescope Array (CTA) will be the next generation ground-based observatory for gamma-ray astronomy and will consist of Imaging Atmospheric Cherenkov Telescopes (IACTs) distributed over two sites, one in the northern and one in the southern hemisphere. CTA will detect gamma rays from 20 GeV to 300 TeV by means of three different telescope sizes. The sub-array of four Large-Sized Telescopes (LSTs) at the CTA-North site at La Palma (Spain) aims at detecting gamma rays at lower energies, especially between 20 GeV and 100 GeV. The first LST (LST-1) was completed in 2018 and three more will be built in the next three years. In this presentation we report on the status of the LSTs as well as the progress of the commissioning of the LST-1. We will also show the achieved performance of the telescope on standard sources such as the Crab Nebula and Crab pulsar.

Collaboration name

CTA-LST Project

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