

Science with the LST

XIII CPAN days, Red Nacional Temática de Astropartículas session

M. I. Bernardos Martín*on behalf of CTA-LST Project

March 21, 2022

Abstract

The prototype for the first Large-Sized Telescope (LST) of the future Cherenkov Telescope Array (CTA) is located in the Roque de los Muchachos Observatory on the island of La Palma. LSTs will detect the lowest energy gamma-rays that CTA will observe; the LST1 is currently the most sensitive Imaging Atmospheric Cherenkov Telescope (IACT) in its energy range (down to ≈ 20 GeV). The LST1 has collected a significant amount of data since November 2019. During this commissioning phase a variety of sources have been observed, producing promising scientific results. This talk will be an overview of all these results, showing the outstanding performance of the telescope working in single mode.

*Instituto de Astrofísica de Andalucía - CSIC
misabelber@iaa.es