



Contribution ID: 90

Type: **not specified**

Status and results of LST-1

Wednesday, 7 September 2022 11:45 (25 minutes)

The Large-Sized Telescopes (LSTs) will be one of three telescope types composing the Cherenkov Telescope Array (CTA). LSTs will dominate the CTA performance at the lowest gamma-ray energies, especially between 20 GeV and ~150 GeV, thanks to the tessellated parabolic mirror of 23 m diameter and the ultrafast imaging camera with 4.5 degrees field of view consisting of 1855 high efficiency photomultiplier tubes.

The CTA North site in La Palma, Canary Islands, Spain will host the sub-array of four LSTs. The commissioning of the first LST, LST-1, which was inaugurated in October 2018, is ongoing.

During its commissioning period, LST-1 has observed various astrophysical sources in monoscopic mode, producing very promising early scientific results, like the detection at VHE of the nova RS Ophiuci and a flare of BL-Lac (announced in July 2021 with the first LST-1 ATel).

The presentation will focus on the status of LST-1 commissioning, the preliminary scientific results and the future prospects.

Summary

Primary author: DONINI, Alice (INAF - OAR)

Presenter: DONINI, Alice (INAF - OAR)

Session Classification: II Plenary Session chair Aldo Morselli