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The on-site analysis of the MAGIC and LST-1 telescopes

The MAGIC telescopes and the Larged-sized-telescope prototype (LST-1) of the upcoming Cherenkov Telescope Array (CTA) are Imaging Atmospheric Cherenkov Telescopes IACTs located at the Observatorio del Roque de los Muchachos, in La Palma. These telescopes take large volumes of data each night (in the case of LST-1, ~3 TB per hour of observation), which makes it essential to have automated pipelines able to analyze and reduce the data onsite before it is transferred to the data centers. The *MAGIC OSA* (On-Site Analysis) and *lstosa* pipelines are designed to perform automatic, fast on-site data analysis of the data taken each night by MAGIC and LST-1, respectively. Both pipelines provide useful analysis products daily for all the members of the collaborations. They are crucial to detect and react rapidly to astronomical alerts, such as gamma-ray bursts or AGN flares. Additionally, they provide fast data quality checks. In this talk, we will review the workflow of the on-site analysis, the analysis products they offer and other essential tasks performed by the on-site analysis team, with a special focus on *lstosa*.

Abstract

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