

## **Ambra Di Piano: Real-time analysis for the LST-1**

*Thursday, 9 June 2022 10:55 (20 minutes)*

The Large-Size Telescope (LST) is one of the three classes of telescopes that will comprise the Cherenkov Telescope Array (CTA). The first of such telescopes, the LST-1 prototype, was inaugurated onsite, at the Observatorio del Roque de los Muchachos, on October 10th, 2018. The telescope is now in the commissioning phase to ensure that all requirements are satisfied, as well as to improve the telescope's sensitivity and performance. An onsite and online software system will be provided for reconstruction, data quality and scientific analyses of the observations in real-time. The goal is to provide scientific quick-looks for the support astronomer, to produce fast raw scientific results and to generate (as well as react to) science alerts on transient and variable phenomena. The software is based on the framework used by AGILE and is a prototype for the Science Alert Generation (SAG) system of CTA. In this contribution I will present a general overview of the project and report on its status.

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