

Vulcano Workshop 2022 - Frontier Objects in Astrophysics and Particle Physics



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Status of the CTA LST Project

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The CTA is a new generation International gamma-ray observatory under construction, which will have a wider energy coverage and ten times better sensitivity than the currently running Telescopes, HESS, MAGIC, and VERITAS. The LST collaboration is constructing four Large Size Cherenkov Telescopes (LSTs) with 23m diameter dish in Spain, La Palma, and possibly another four LSTs in Paranal, Chile. The first telescope, LST1, is in the commissioning and engineering phase, and already some exciting results have been delivered. Three more telescopes will be built in 2024. Then the array of four LSTs will provide a significant sensitivity for observing gamma-ray sources with a 20GeV energy threshold, which will expand the visible Universe up to the redshift $z = 4$ and deliver exciting sciences. We would like to discuss the current status of the LST project and science with CTA-LSTs.

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