

# The Cherenkov Telescope Array: Status and Perspectives

*Friday 14 October 2022 16:30 (15 minutes)*

The Cherenkov Telescope Array will be five to ten times more sensitive with respect to the current generation Imaging Atmospheric Cherenkov Telescopes and will have an unprecedented accuracy in its detection of very-high-energy gamma rays in the energy range from 20 GeV to 300 TeV.

CTA is designed to detect gamma rays over a larger area with dozens of telescopes located on the Canary island of La Palma and at Paranal in the Atacama desert in Chile, in the northern and southern hemispheres respectively. Together, the northern and southern CTA arrays will constitute the CTA Observatory (CTAO), which will be the first ground-based gamma-ray observatory open to the worldwide astronomical and particle physics communities as a resource for data from unique, high-energy astronomical observations.

The talk will present the current status of development of the telescopes, of the Observatory and the perspectives for its scientific observations.

## Track

Future Missions/Instruments

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