

about

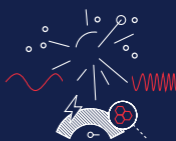


Credit: Gabriel Pérez Diaz (IAC)



CTAO will be the largest and most sensitive ground-based gamma-ray observatory in the world with **64 telescopes in the first construction phase** located in the northern and southern hemispheres.

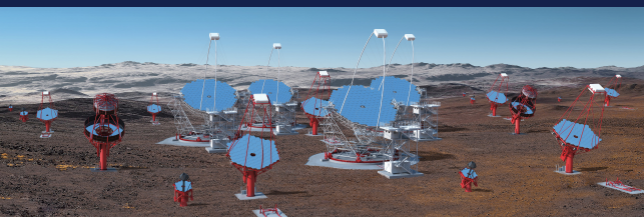
CTAO's sensitivity to energies up to 300 TeV will push CTAO to the edge of the known electromagnetic spectrum, providing a **more enhanced view of the sky** than ever before and allowing us to search for extreme particle accelerators.



Credit: Gabriel Pérez Diaz (IAC)

CTAO's detection of gamma rays with energies as low as 20 GeV will allow CTAO to probe transient and time-variable gamma-ray phenomena in the very distant Universe with **unprecedented sensitivity**.

CTAO is the first ground-based gamma-ray observatory and the first of its kind to be **open to the worldwide astronomical and particle physics communities** as a resource for data from unique, high-energy astronomical observations.



Credit: Gabriel Pérez Diaz (IAC) / Marc-André Besel (CTAO)



cherenkov
telescope
array

the observatory for
ground-based
gamma-ray astronomy