



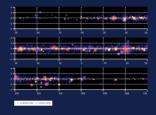


CTAO will seek to understand the impact of high-energy particles in the evolution of cosmic systems and to gain novel insight into the most extreme phenomena in the Universe.

## Exploring the most extreme phenomena in the Universe

CTAO will build on the advances pioneered by its predecessors to expand the catalogue of known gamma-ray emitting cosmic sources five to tenfold, detecting more than 1,000 new objects.





CTAO will seek to address questions falling under three major themes: Understanding the Origin and Role of Relativistic Particles, Probing Extreme Environments and Exploring Frontiers in Physics.



CTAO will conduct a census of particle acceleration in the Universe and will search for annihilating dark matter particles and deviations from Einstein's theory special relativity.



the observatory for ground-based gamma-ray astronomy