

Exploring the Universe at the highest energies with the Cherenkov Telescope Array

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Summary

The Cherenkov Telescope Array (CTA) is the ultimate ground-based observatory for gamma-ray astronomy at very-high energies. Equipped with more than 100 telescopes located at two sites, CTA will have unprecedented angular and energy resolution and will be the most sensitive high-energy gamma-ray observatory. Using CTA's capabilities we will address fundamental questions in astrophysics and particle physics, probing extreme environments in the Universe. After a broad introduction on CTA's functionalities and targets, we will focus on CTA's potential for probing cosmology and fundamental physics with gamma-ray propagation including searches for physics beyond the standard model.

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