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## The Cherenkov Telescope Array Observatory (CTAO)

*Monday 2 June 2025 15:30 (40 minutes)*

The Cherenkov Telescope Array Observatory (CTAO) is the next-generation observatory for ground-based gamma-ray astrophysics. CTAO will achieve unprecedented sensitivity and angular resolution at energies from 20 GeV to 300 TeV across both the northern and southern hemisphere skies. Construction and early operations are underway at the two sites of La Palma in the Canary islands, and in the Paranal desert in Chile. The science cases with CTAO include understanding cosmic particle acceleration, probing extreme environments, and the nature of dark matter. The main UK contributions to CTAO instrumentation are the cameras for the Small-Sized Telescopes.

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