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Extragalactic science with the Cherenkov Telescope Array

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The Cherenkov Telescope Array (CTA) is the next-generation observatory for ground-based gamma-ray astronomy. A Key Science Program (KSP) of observations will be conducted, providing legacy data sets of benefit to the entire astronomical community. This contribution presents the extra-galactic science addressed in the CTA KSP. The objectives contain targeted observations of active galactic nuclei, galaxy clusters and star-forming galaxies as well as follow-up observations of gamma-ray bursts and other transients triggered by multi-messenger alerts. The KSP also includes a survey of one quarter of the extra-galactic sky, permitting a thorough search for cosmic particle accelerators and the exploration of the unknown.

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