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Science with the Cherenkov Telescope Array

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The Cherenkov Telescope Array (CTA) will soon observe the sky in the energy range from a few tens of GeV to 300 TeV with unprecedented sensitivity and improved angular and energy resolution with respect to current-generation instruments. The science case for CTA covers a broad range of topics: the origin and role of cosmic rays, extreme astrophysical objects, and exploring the frontiers of physics. In this contribution we will provide an overview of prospects for science with CTA, with special focus on topics of particular interest for the French high-energy astrophysics community such as Galactic gamma-ray sources, active galactic nuclei and jets, multimessenger and transient phenomena, and dark-matter searches.

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