

Active Galactic Nuclei population studies with the Cherenkov Telescope Array

Friday 16 July 2021 19:18 (12 minutes)

The Cherenkov Telescope Array (CTA) is the next generation ground-based imaging atmospheric Cherenkov telescope (IACT) observatory. Building on the strengths of current IACTs, CTA is designed to achieve an order of magnitude increase in sensitivity, with unprecedented angular and energy resolution. CTA will also increase the energy reach of ground-based gamma-ray astronomy, observing photons in the energy range of 20 GeV to beyond 100 TeV. These improvements in telescope performance will see CTA heralding in a new era for ground-based gamma-ray astronomy, with the emphasis shifting from source discovery to population studies and precision measurements. In this talk we discuss CTA's ability to conduct population studies of gamma-ray bright Active Galactic Nuclei, and how this ability will enhance our understanding of the redshift evolution of this important gamma-ray source type.

Keywords

CTA, AGN, population studies

Collaboration

CTA

other Collaboration

Subcategory

Future projects

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Session Classification: Discussion

Track Classification: Scientific Field: GAI | Gamma Ray Indirect