Contribution ID: **12** Type: **not specified**

Patrizia Romano: CTAO Extragalactic Science

Thursday, 9 June 2022 09:30 (25 minutes)

CTAO, the next-generation ground-based gamma-ray observatory, will boast a wide energy range (20 GeV to 300 TeV) and will provide an average differential sensitivity a factor of 5–20 times better with respect to the current IACT arrays; in particular for transients and flaring events (time-scales of ~1 d or shorter) CTAO will be about two orders of magnitude more sensitive with respect to Fermi-LAT at the overlapping energy of 25 GeV, thus allowing an unprecedented opportunity to investigate gamma-ray-emitting active galactic nuclei. In this talk I will give an up to date overview of the initiatives and activities currently in progress within the CTAO Extragalactic Science Working group, and the highlights of the expected results.

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