

SciNeGHE 2016 High-energy gamma-ray experiments at the dawn of gravitational wave astronomy



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Status and Perspectives of CTA

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The very-high energy gamma-ray astrophysics in the few tens of GeV to 100 TeV domain experienced a real boost in the last decade from detecting just a few sources in 2003 to more than 150 galactic and extragalactic sources in 2016.

Several outstanding discoveries were made during that time thanks to the excellent performance of the H.E.S.S., MAGIC and VERITAS arrays of imaging atmospheric Cherenkov telescopes.

Their success paved the way to the next generation instruments, combined together in the Cherenkov Telescope Array (CTA) project, aiming to extend the accessible energy range and to improve the flux sensitivity by an order of magnitude compared with the existing installations.

In this talk I will present the status and perspectives of the CTA project. In particular I will review the key elements of CTA instruments and the way the CTA observatory will be operating as well as I will highlight Key Science Projects targeted by the CTA consortium.

I will also give an update on the schedule of CTA and the early science prospects.

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