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Instrumentation for the Cherenkov Telescope Array

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The Cherenkov Telescope Array (CTA) will be the world's next generation of very high energy gamma-ray telescopes, composed of more than 100 telescopes installed in both hemispheres, with one of the sites in La Palma, in the Canary Islands, and another in Paranal, in northern Chile. The CTA is formed by an international consortium with more than 1,500 members from more than 150 institutes in 25 countries. The three classes of CTA telescopes will provide broad coverage in the energy spectrum, ranging from 20 GeV to 100 TeV, that is, capturing gamma rays whose energies are billions to trillions of times greater than those of visible light. The CTA aims to improve the current angular resolution and energy sensitivity by about an order of magnitude in the search for sources of gamma radiation in the universe.

In this talk, we present a summary of Brazilian efforts on the project and installation of CTA telescopes.

Keywords: Astroparticle physics, Gamma astronomy, Telescopes.

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