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Gamma Ray Astronomy

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Gamma-rays provide a unique probe of the non-thermal universe, allowing us to investigate a wide range of astroparticle physics and astronomy. At present, instruments such as the space-borne Fermi telescope and the ground-based HESS, MAGIC and VERITAS telescopes are providing us with a wealth of results, covering active galactic nuclei, supernova remnants, pulsars, gamma-ray bursts and many more object classes, as well as areas of fundamental physics. This talk will look at the methods used to detect gamma rays, consider a few recent results that are relevant to astroparticle physics and provide an introduction to the next-generation ground-based instrument, the Cherenkov Telescope Array (CTA).

Presenter: Prof. CHADWICK, Paula

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