
The very-high-energy gamma-ray domain and ATHENA

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Abstract

Next-generation instruments operating in the very-high-energy (VHE) gamma-ray domain (such as CTA and SWGO) have promised to help address several major problems of modern Physics such as the search for Dark Matter, or the search for the origin of Cosmic Rays. Pragmatically, these instruments will point at a variety of astrophysical sources, both Galactic and extragalactic, transient or steady, and perform systematic surveys of the sky. In addition to the unprecedented performance, it is now clear that working hand in hand with instruments operating in other domains is indispensable. Especially, joint X-ray (ATHENA) and gamma-ray observations will strongly benefit the study of (at least): pevatrons, supernova remnants, the Galactic center, AGN flares and jets, and GRBs.

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