

The Southern Wide field-of-view Gamma-ray Observatory

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Particle-detector arrays at high altitude proved to be very effective instruments for performing surveys on a daily basis of the very-high-energy gamma-ray sky. In the northern hemisphere, the HAWC and LHAASO gamma-ray observatories recently conducted an all-sky survey that provided significant improvements to our knowledge about Very High Energy TeV gamma-ray sources. In this contribution, we will present an overview of the international effort to realize a next-generation gamma-ray survey observatory in the southern hemisphere, The Southern Wide field-of-view Gamma-ray Observatory (SWGGO). We will discuss the unique science case for this observatory with particular emphasis on the multi-messenger and multi-wavelength connections.

Track

Future Missions/Instruments

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