

# **SWGGO: The next-generation ground-based wide field-of-view gamma-ray observatory in the southern hemisphere**

*Tuesday, 13 April 2021 16:15 (15 minutes)*

Particle-detector arrays at high elevation, such as HAWC and LHAASO in the northern hemisphere, proved to be very effective instruments to perform surveys on a daily basis providing significant improvements on our knowledge about Very High Energy TeV gamma-ray sources. In this contribution, we will present an overview on the effort to realise a next generation gamma-ray survey observatory in the southern hemisphere, where the Galactic Center and most of the Galactic plane are observable from. We will discuss the unique science case for this observatory with particular emphasis on the multi-messenger and multi-wavelength connections. In addition, we will introduce the international organisation formed in July 2019 that aims to realise this facility: The Southern Wide field-of-view Gamma-ray Observatory (SWGGO) collaboration.

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**Session Classification:** Exploring the MeV Sky

**Track Classification:** Future Missions/Instruments