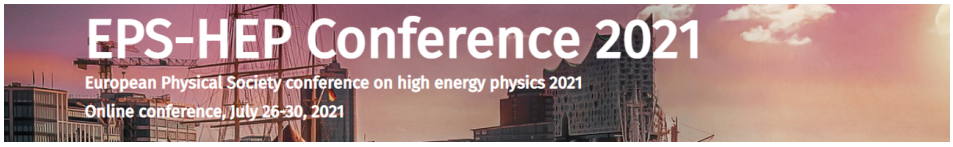

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Southern Wide-field Gamma-ray Observatory: status and prospects

Monday, 26 July 2021 16:30 (20 minutes)

The Southern Wide Field Gamma-ray Observatory (SWGO) is an international R&D project aiming to design and prototype a wide field-of-view gamma-ray facility to monitor the Southern Hemisphere sky in gamma-rays.

SWGO will be placed at a high altitude (above 4.4 km) in South America and aims to provide a good sensitivity for observations from the low energies (~100 GeV) up to the PeV region. Such energy range allows covering a broad physics program, being entirely complementary to the Cherenkov Telescope Array (CTA) and other Northern ground-based observatories, such as HAWC or LHAASO.

In this talk, I will present the current status and plans for SWGO, namely, progress on the detector design concepts being evaluated, array layout options and site procurement. The expected sensitivity of SWGO and its science capabilities will also be addressed.

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Collaboration / Activity

SWGO

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