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The Southern Wide-field Gamma-ray Observatory

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The Southern Wide-field Gamma-ray Observatory (SWGO) is a next-generation ground-based gamma-ray observatory under development in the Southern Hemisphere . Planned for installation at 4.8 km above sea level in the Atacama Astronomical Park in Chile, SWGO consists of an array of water Cherenkov detectors to measure gamma-ray emission over a wide energy range from hundreds of GeV to several PeV. By complementing CTA and existing Northern Hemisphere facilities, such as HAWC and LHAASO, SWGO will constrain the extreme physics of the multi-messenger universe, including but not limited to cosmic particle accelerators, transient phenomena, and fundamental physics. This presentation will highlight the status of the project, milestones of the developments, and key sciences that SWGO will deliver.

Collaboration you are representing

SWGO

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