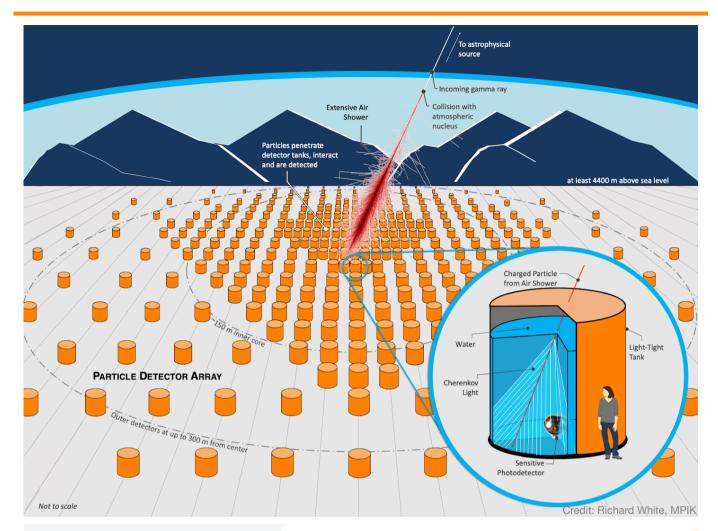
The Southern Wide-field Gamma-ray Observatory (SWGO) is an astrophysical gamma-ray observatory to be built in South America.

SWGO will detect very high-energy light known as gamma rays entering the Earth from outer

space.

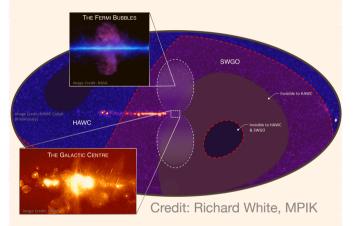






SWGO will be a high-altitude gamma-ray astrophysical observatory installed over 4,400 meters above sea level. The detector will consists of thousands of detector units, which could be deployed as an array of individual detector units, or assembled in a building. Detector units could be spread on the ground or submerged in a lake. The detector will cover square kilometer and each detector will have several tons of water, while the whole array will contain several thousands of tons of it.

SWGO will be the first high-altitude gamma-ray observatory to provide wide-field coverage of a large portion of the southern sky.



Gamma-ray sky image as seen with the (current) HAWC and (future) SWGO observatories.

SWGO will complement current and future instruments such as HAWC, LHAASO, and CTA, a worldwide multi-messenger effort, to unveil extreme astrophysical phenomena. SWGO will observe the gamma-ray sky at the highest energies, enabling studies of extreme cosmic objects such as supermassive black holes and remnants of supernova explosions while also probing the nature of dark matter.

SWGO also aims to develop a **positive relationship** with the host country and the local community.

Want to know more?



CONTACT: swgo_spokespersons@swgo.org



www.swgo.org



