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Gamma-ray astronomy in South America - SWGO

A new gamma-ray experiment in the TeV-PeV energy range is proposed to be built in South America, given its height (higher than 4.4 km) and latitude (between 10° and 30° south). The Southern Wide-field Gamma-ray Observatory (SWGO) will be a ground-based water Cherenkov detector array with a high fill-factor core and a low-density outer array. Currently, similar experiments, such as HAWC and LHAASO, are running in the northern hemisphere, while there is no such instrument in the southern hemisphere. Therefore, SWGO will allow access to the Galactic Center and complete the full sky coverage for transient (e.g. GRBs) and variable multi-wavelength phenomena. In this seminar, I will describe the basic design of the experiment, its scientific goals, and its current status, emphasizing the proposed sites in Peru.

Aula virtuale

