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Fundamental Paricle Physics with SWGO

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The Southern Wide-field Gamma-ray Observatory (SWGO) is a proposed experiment that will continuously monitor the TeV gamma-ray sky. Similar to the High Altitude Water Cherenkov (HAWC) Observatory, is will have a wide field of view, nearly 100% duty cycle, and will therefore observe ~2/3 of the sky every day. It will use water cherenkov detectors and be located in the southern hemisphere. SWGO is planned to be the most sensitive gamma-ray observatory in the southern hemisphere above ~10 TeV. SWGO will be able to perform several searches for physics beyond the standard model. Specifically we will discuss searches for Axion Like Particles and Lorentz Invariance Violation.

Keywords

Collaboration

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Subcategory

Experimental Methods & Instrumentation

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