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The Southern Wide-field Gamma-ray Observatory (SWGO)

Friday 31 July 2020 12:30 (15 minutes)

The surface detection of gamma-ray showers has the advantage of a very high duty cycle and wide field-of-view observations across the sky in comparison to Cherenkov telescopes. The scientific potential of a wide-field gamma-ray observatory has already been demonstrated by the experiments HAWC, ARGO and LHAASO in the Northern hemisphere. The Southern Wide-field Gamma-ray Observatory (SWGO) will be located at a site in South America at an altitude above 4400 m a.s.l., and cover an energy range from 100s of GeV to 100s of TeV. I will present the scientific perspectives and concept for the future experiment SWGO, which is now starting its R&D phase.

Secondary track (number)

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