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Performance and stability of the prototype stereoscopic water Cherenkov detector array experiment

The goal of the Stereoscopic Water Cherenkov array (SWCDA) project is to observe high-energy gamma rays in the 100 GeV-10 TeV energy region. The detector is designed to complement other current ground-based experiments. It will greatly improve the sensitivity of gamma-ray observations in the 100GeV-10 TeV range. By the end of 2024, we have built a prototype of 100 mˆ2 inside the Tibet ASgamma array (Tibet-III). This work will report on the structure, performance, and stability of each part of the SWCDA prototype.

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