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Performance of the Prototype Station of the IceCube Surface Array Enhancement

The prototype station of the Surface Array Enhancement at the IceCube Neutrino Observatory has been taking data in its final design since 2023. This station is part of the planned extension within the footprint of the existing surface array, IceTop. One station consists of 8 scintillator detectors, 3 radio antennas, and a central DAQ. The final upgrade of the prototype station has increased the observation window for air showers by extending the dynamic range of the scintillation detectors and increasing the up-time for data taking. This contribution will discuss the performance of the station after commissioning and its angular resolution capabilities when observing air showers with the scintillation detectors and in coincidence with IceTop. Furthermore, the integration of additional stations in the most recent deployment will be discussed.

Collaboration(s)

IceCube

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