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Upgrade Plans for VERITAS

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The VERITAS array, consisting of four 12m diameter Cherenkov telescopes, has been observing the Northern sky in VHE gamma-rays (E>100 GeV) for four years with high sensitivity (1% Crab Nebula flux in ˜25 hours), and excellent energy and angular resolution. Exciting new results on a variety of VHE gamma-ray sources, both galactic and extra-galactic, have been obtained. Technical developments and Monte Carlo simulation results suggest that substantial further improvements to the array performance are possible. Here we present details of the planned update of the VERITAS focal plane instrumentation and trigger electronics.

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