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Upgrading the VERITAS Array JAMIE HOLDER, University of Delaware, VERITAS COLLABORATION — The VERITAS array, consisting of four 12m diameter Cherenkov telescopes, has been observing the Northern sky in TeV gamma-rays for three years with high sensitivity (1 percent of the Crab Nebula flux in 50 hours), and excellent energy and angular resolution. Exciting new results on a variety of TeV gamma-ray sources, both galactic and extra-galactic, have already been obtained. Technical developments and Monte Carlo simulation results now suggest that substantial further improvements to the array performance are possible, and that an upgrade is timely and worthwhile. Here we present some of the preferred options.

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