

Upgrade of the VERITAS Cherenkov Telescope Array

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The VERITAS Cherenkov telescope array has been fully operational since Fall 2007 and has fulfilled or outperformed its design specifications. We are preparing an upgrade program with the goal to lower the energy threshold and improve the sensitivity of VERITAS at all accessible energies. In the baseline program of the upgrade we will relocate one of the four telescopes, replace the photo-sensors by higher efficiency photomultipliers and install a new trigger system. In the enhanced program of the upgrade we foresee, in addition, the construction of a fifth telescope and installation of an active mirror alignment system.