The Utah Seven Telescope Array

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Abstract

Since January of 1997, the Utah Seven Telescope Array has been in operation to study Very High Energy(VHE) gamma-ray sources. It locates at Dugway, Utah (113.02°W, 40.33°N, an altitude of 1600m above sea level). The detector consists of an array of seven telescopes arranged in a hexagonal grid with a separation of 70m. The current energy threshold is 600GeV for the gamma-ray showers. The typical sensitivity is 0.5 Crab flux with one night observation. Angular resolution and energy resolution of the stereoscopic analysis are $0.1^\circ \times 0.1^\circ$ and 23 %, respectively. We will report the detail of the telescope mechanics, mirrors, camera and data acquisition systems.