

MEASUREMENT OF THE SPECTRUM AND POLARIZATION OF CHERENKOV LIGHT WITH THE HEGRA STEREOSCOPIC IACT SYSTEM

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The HEGRA system of Imaging Atmospheric Cherenkov Telescopes (IACTs) detects Cherenkov light produced by air showers. The concept of stereoscopic observation with the five HEGRA telescopes allows the reconstruction of various shower parameters, for example the shower direction, the location of the shower core and the energy of the primary particle. One of the telescopes was modified so that measurements of the spectrum and the polarization of Cherenkov light with the HEGRA system were possible. The experimental setup will be described and the results presented.