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Long-term Optical Study of Extragalactic TeV sources

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About forty (Mrk 421, Mrk 501, 1ES 1959+650 end others) northern TeV extragalactic sources have been discovered during last two decades. Most of them (2/3) we are monitoring in Abastumani Observatory from the beginning of 1997 using 125-cm and 70-cm meniscus telescopes. All observations (over 2500 nights) have been conducted with Apogee Ap6E and SBIG ST-6 CCD cameras in BVRI bands. The densest coverage is carried out during FERMI/LAT mission. The frames have been reduced using Daophot II and homogenous lightcurves have been constructed.

The amplitudes of long-term variability are within 0.3-1.5 magnitudes. Few sources show Intraday variability within 0.05-0.15 magnitudes, while intra-night/micro-variability is below 0.05 magnitude.

The results of multiwavelength campaigns with Whipple, VERITAS, HESS and MAGIC are also presented.

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