

Study of Bright FERMI-LAT Blazars in optical band

To study optical variability of extragalactic sources during last twenty years we are conducting in Abastumani Observatory a long-term monitoring campaign using dedicated telescopes, which allowed collecting 320000 CCD frames during ~3500 nights. This extensive monitoring campaign a few dozen blazars first five years was carried out in BVRI bands and later on from 2002 mainly in R band using the 70-cm meniscus (f/3, SBIG ST6 and Apogee Ap6E) and 125-cm Ritchey-Chretien (f/13, Apogee Ap6E) telescopes. Most dense coverage of selected LAT brightest sources (3C 454.3, 3C 279, PKS 1510-089, S5 0716+710, 4C 71.07 and others) has been undertaken after launch of FERMI satellite in 2008. The frames have been reduced using Daophot II and homogenous sample of light curves have been constructed. Most sources show wide range of variability (long-term up to six magnitudes, IDV and micro-variability). We present optical light curves of these most well sampled sources.

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