

Photometric monitoring of 5 BL Lacertae objects

Hoseong Hwang¹, Myung Gyoon Lee¹, Hyunju Lee¹

¹*Astronomy program, SEES, Seoul National University*

The results of optical photometric(V, R) monitoring of five BL Lac objects and from September 1999 to April 2002 are presented. The sources are four X-ray selected Objects(1ES 1959+650, 1ES 2344+514, 1ES 0229+200 and 1ES 0647+200) and one Radio selected Objects(S5 0716+714). In 1999 S5 0716+714 kept in faint states. On the contrary, in 2001 and 2002 it shows periodic and large outburst. The micrvariation in 1ES 1959+650 and 1ES 2344+514 are rare and the amplitude was very small, but intermediate variations(on timescales of months) are significant after September 2001. 1ES 0229+200 and 1ES 0647+200 show both long-term and short-term variability clearly. And 1ES 0229+200 shows different behavior in V, R during October 2001.