COORDINATED MULTIFREQUENCY OBSERVATIONS OF OJ 287 AND MK 421 (MARCH 1993)

A. SILLANPÄÄ and L.O. TAKALO Tuorla Observatory, Tuorla, 21500 Piikkiö, Finland

E. VALTAOJA and H. TERÄSRANTA Metsähovi Radio Research Station, Finland

YU.S. EFIMOV and N. SHAKHOVSKOY Crimean Astrophysical Observatory, Ukraine

and

J. HEIDT and H. BOCK Landessternwarte Königstuhl, Germany

We present some very preliminary results of the multifrequency microvariability campaign of two BL Lac objects OJ 287 and Mk 421 carried out mainly during four days in March 1993. During these four days also IUE was observing these blazars. In this poster we present only a small part of the whole data: radio observations at Metsähovi, CCD observations on La Palma and Heidelberg and UBVRI photopolarimetric observations at Crimea. Because of the very bad global weather conditions and also because of the faintnes of OJ 287 our optical observations were very limited.

In the radio bands both objects were quite stable during the campaign, but in the optical region both were more variable. The brightness of Mk 421 increased about 30 % in two days (in R-band). OJ 287 was very weak and also more stable but a typical sinusoidal wave behaviour was visible in a four day timescale. The polarization properties of Mk 421 were normal: the polarization level varied slightly and was between 1.5 and 4 percent, the position angle varied between 10 and 40 degrees.

More detailed results will be presented in the forthcoming papers.