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18-CM FLUX MEASUREMENTS OF BL LACERTAE

Presented here is a small sample of 18-cm flux measurements of BL Lacertae (VRO 42.22.01) made from October 1971 to January 1972 with the University of Illinois' 37-m (120-ft) radio telescope. These observations are meant to supplement data given by Webber et al. (1976, A.J. 81, 1069). Each flux measurement represents the average of six scans in right ascension, six scans in declination, and three 5 K calibrations. Two standard sources (observed in the same manner) were used: 3C 48 and 3C 147, with assumed fluxes of 15.2 and 10.5 Jy, respectively. The sensitivity of the instrument was 5.0 Jy/K. The maximum and minimum fluxes observed during the time span indicate a statistically significant variation, and the observed maximum is greater than that observed by Webber et al. (1976), but the sample as a whole indicates that the 18-cm flux of BL Lacertae was approximately constant. A small sample of photographic photometry data over the same time span (Deming et al. 1973, IBVS No.821) indicates that the optical light output was also roughly constant.

JD	18-cm Flux (Jy) of BL Lac
2441233.7	7.1 \pm 1.0
1241.7	5.9 0.5
1248.7	6.5 0.5
1255.6	6.3 0.5
1268.6	6.8 0.5
1275.5	6.5 0.5
1324.5	7.6 0.5

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