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THE PERIOD OF LR SAGITTARII

A recent discussion of LR Sgr by Vidal (1974) points out the need for more observations to establish the period. I have estimated the brightness on some 400 photographs obtained at the Maria Mitchell Observatory from 1957 to the present. A period of 275 days satisfies these observations as well as the early date of maximum JD 18885 published in the GCVS and the 1954-55 observations, near minimum, in the Lick Atlas. Maxima on the Nantucket plates occurred on or near the following Julian days: 36750, 37580, 37875, 40070, and 41450. These observations span 22 epochs while the early Innes maximum occurred 63 cycles earlier. Mean magnitude at maximum, according to the sequence for V 1017 Sgr by McLaughlin (1946) as revised by Vidal and Rodgers (1974) is about 13.8pg.

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References:

- McLaughlin, Dean B. 1946, P.A.S.P., 86, 46.
Vidal, N.V. 1974, P.A.S.P. 86, 308.
Vidal, N.V. and Rodgers, A.W. 1974, P.A.S.P. 86, 26.