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LIGHT VARIATION OF THE NUCLEUS OF MARKARJAN GALAXY 358

On the Supernova survey plates taken with the 60/90/180 cm Schmidt telescope of the Konkoly Observatory between December 1965 and September 1977 it was found that the nucleus of the Markarjan Galaxy 358 (B.E. Markarjan, V.A. Lipovetsky, Astrofizika 7, 514, 1971)(i.e. the 5-4-59 of Vorontzov-Veliaminov II. Catalogue) shows a conspicuous brightness variation of the order of two magnitudes. The coordinates of the Galaxy (S.D. Peterson, Astron.Journ.78, 822, 1973):

RA $1^h\ 23^m\ 45^s.1$ 1950
Decl.$+31^o\ 21'\ 13''$

The spectrum of the nucleus of the galaxy has weak Hα, [NII] λλ 6548/83 and [SII] λλ 6717/31 lines (M.A. Arakelian, E.A. Dibay, V.F. Yesipov, Astrofizika 8, 184, 1972).

In Table 1 the brightnesses of the nucleus of the galaxy with the different data of observations are collected. These values of magnitudes were only estimated. The error of this estimation is not greater than 0.5 magnitude. Plates used were Kodak OaO and 103aO.

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Table 1

Date	magn.	number of plates	Date	magn.	number of plates
1965 Nov 25/26	16.0	2	1972 July 21/22	15.0	2
1966 Oct 6/7	16.0	2	Nov 3/4	15.5	2
1967 Jan 7/8	15.5	2	Dec 27/28	16.0	1
Febr 7/8	15.0	2	1973 Jan 4/5	16.0	2
Aug 8/9	14.5	2	" 5/6	15.5	2
Sept 7/8	15.0	1	" 6/7	15.0	1
Oct 2/3	14.5	2	Febr 28/1Mar	14.5	2
Nov 1/2	15.0	2	Aug 8/9	16.0	2
Dec 2/3	15.5	2	" 26/27	15.5	2
1968 Aug 4/5	14.0	2	Nov 21/22	15.0	2
" 23/24	14.5	2	1974 Jan 18/19	15.0	2
Oct 14/15	15.0	2	Febr 16/17	16.0	2
" 27/28	14.0	2	Aug 18/19	14.5	2
Nov 22/23	15.5	2	Dec 15/16	15.0	2
Dec 12/13	16.0	1	1975 March 1/2	15.5	2
1969 Jan 8/9	15.0	2	Oct 9/10	15.0	2
1970 March 8/9	16.0	2	Nov 8/9	16.0	2
July 30/31	16.0	2	Dec 7/8	16.0	2
Sept 7/8	15.5	2	" 9/10	16.0	2
Nov 25/26	15.0	2	1976 Oct 20/21	14.5	2
1971 July 31/1Aug	15.5	2	1977 Febr 16/17	15.0	1
Aug 19/20	15.0	2	July 19/20	14.5	2
Sept 18/19	14.0	2	Sept 12/13	14.5	2
1972 July 19/20	15.0	2			