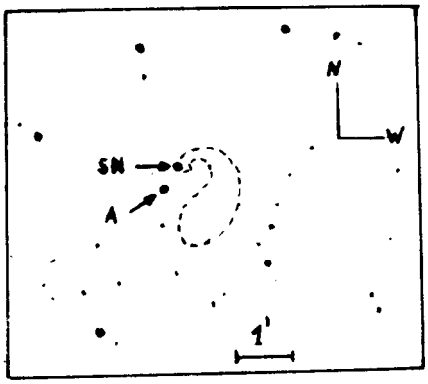
COMMISSION 27 OF THE I. A. U.
INFORMATION BULLETIN ON VARIABLE STARS

NUMBER 653

Konkoly Observatory
Budapest
1972 April 2

SUPERNOVA 1954 IN THE SBp GALAXY NGC 4027

Photographic plates with the centre R.A.=$11^h56^m.5$; Dec.= $=-18^\circ48'$ taken with the 90/60/180 cm Schmidt-telescope of the Konkoly Observatory on Piszkéstető on March 17, 1972 were compared with the Palomar Sky Survey blue and red prints No.1030, April 2/3, 1954. On the Palomar prints the knot at the end of the northern spiral arm of the SBp galaxy NGC 4027 R.A.=$11^h57^m.0$; Dec.=$-18^\circ59'$; 1950, has the same brightness like the star A on the sketch. On our photographic plates this knot is about three magnitudes fainter, it is of about 17mag. We find the same situation in the photograph published by W.W. Morgan in P.A.S.P., 70, 364, 1958.



It seems most likely that a supernova appeared in the above mentioned part of the galaxy NGC 4027 in 1954 when the Palomar Sky Survey plate was obtained. The position of the supernova is marked on the sketch. Its distance from the centre of the bar is 31".2 E and 48".0 N, its magnitude is about 14.

March 23, 1972

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