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Konkoly Observatory  
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PHOTOELECTRIC OBSERVATIONS OF NOVA SAGITTARII 1969.

Since its discovery by Welch (IBVS 389), Nova Sgr 1969 has been observed at the Auckland Observatory, N.Z., with the 50cm Zeiss Cassegrain reflector with Mark 1 photometer at the f/13.3 focus. The photometer consists of an EMI 9502 S.A. tube operated at 1600 volts H.T. with a digital readout and a ten second integration period.

The comparison star was HD 170704, for which the following values were found using HD 170279 and HD 170320 from Hogg's sequence (PASP, 75, 194, 1963):

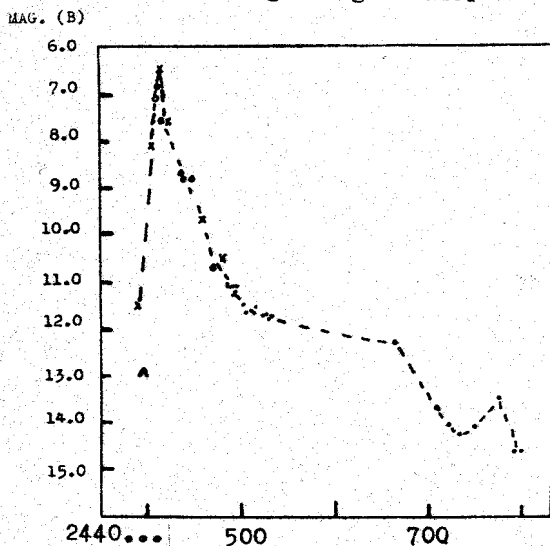
$$V = 8.52; B-V = +0.04; U-B = -0.11$$

OBSERVATIONS.

J.D.	V	B-V	U-B
2 440 485,90	11,24	-0,14	-0,59
,94	11,20	-0,14	-0,51
486,87	11,22	-0,11	-0,55
491,90	11,30	-0,18	-0,44
492,01	11,48	-0,18	-0,50
495,85	11,24	-0,11	-0,52
,86	11,34	-0,23	-0,50
,88	11,32	-0,11	-0,52
504,99	11,56	-0,08	-0,55
505,86	11,65	-0,03	-0,50
517,87	11,55	+0,02	-0,40
526,85	11,63	+0,07	-0,31
527,84	11,70	0,00	-0,40
531,88	11,81	-0,05	-0,30
533,85	11,78	-0,05	-0,29
666,10	11,76:	+0,56:	...
711,02	12,96:	+0,75:	+0,13:
722,00	13,42	+0,62	+0,53
734,00	13,29	+0,94	+0,38
750,17	13,29	+0,86	+0,05
776,97	13,32	+0,15	+0,12
799,09	14,02:	+0,63:	+0,06:
800,95	13,66	+0,98	+0,16

Observations are on the standard UBV system and the internal accuracy of these should be  $\pm 0.02$ , or better, with the exception of those indicated by a colon where weather or other factors intervened.

Candy (IBVS 408) published a photographic magnitude from a Perth plate. The Nova was also discovered on Bamberg plates taken at the Mount John University Observatory (IBVS 452). On the light curve herewith the photographic magnitudes from IBVS 389 and 408 are shown as crosses; those from IBVS 452 as open circles and B values from the Auckland observations as dots. Welch's observation on JD 2440413.93 must have been very close to the maximum. There is a difference between his observation on 2440391.96 and that at Mt. John on 2440395.02. Otherwise the two sets of photographic observations are in good agreement.



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