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PHOTOELECTRIC OBSERVATIONS OF SN 1987A

SN LMC 1987A was monitored photoelectrically at two independent, New Zealand observatories from February 1987 to September 1987.

West Melton Observatory, Christchurch, uses a 36 cm. cassegrain reflector, an uncooled 9502 S/A end-window photomultiplier, a current-to-frequency converter and 3x10 second integrations, using a 45 arcsecond sky aperture.

Johnson U,B and V filters are used and the system is standardised against Cousins E-Region standards from which transformation coefficients are derived to correct the system spectral response.

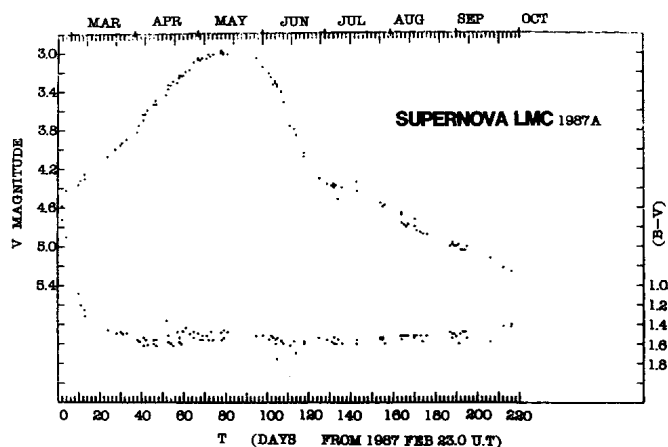


Figure 1

Adams Lane Observatory, Blenheim, uses a 30 cm. cassegrain reflector, an uncooled EMI 9789 QB, end-window photomultiplier, a current-to-frequency converter and 3x10 second integrations with standardised U,B, and V filters and 60 arcsecond sky aperture.

Both observatories used Theta Doradus ($V=4.82$, $B-V = 1.28$, $U-B = 1.38$) as primary comparison star for differential photometry measurements.

The results have been combined in Figure 1. Agreement is good in V with systematic but consistent differences (0.08 magnitude) apparent in B-V .

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