

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

Number 3051

Konkoly Observatory
Budapest
21 July 1987
HU ISSN 0374-0676

VRI PHOTOMETRY OF LMC SN 1987A

Photometric observations of SN 1987A were done using 40 cm reflector during the period February 28 to March 10 at Vainu Bappu Observatory, Kavalur. Photometric system consisted of water cooled EMI 9658 R, photomultiplier tube operating at 1500 volts, a strip chart recorder and an amplifier. Observations were done through VRI filter combinations of Fernie (1974). The object was most of the time within 10 degrees of the horizon. HR 1859 and HR 1744 were used as comparisons. The measurements were transformed to the Johnson system through observations of standard stars. We used Raveendran's photometric reduction programs and arrived at a V magnitude of 4.5 ± 0.04 around March 2 and 4.2 ± 0.04 around March 9. We obtained $V-R = +0.48 \pm 0.03$ and $R-I = +0.42 \pm 0.03$. The values quoted are mean values for a period of 4 days each.

Acknowledgements

We thank Dr.N.Kameswara Rao, Mr.A.V.Raveendran, S.Mohin and Dr.Sunetra Giridhar for useful discussions and their encouragement.

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