

A Test of LaTeX

August R. Childress

03/26/2024

1 Abstract

This analysis combined data collected from multiple photometric and spectroscopic observations and techniques from decades of scientific papers[2][1] to create code that estimates the distance to the SN1987a-like supernova, SN2018hna. The analysis concludes that the derived distance, between 13-15 Mpc, is within acceptable range of other estimates and confirms the accuracy of the data and method.

2 Introduction

test ref [2]

3 Equations

4 References

References

- [1] Thomas A. Matthews and Allan R. Sandage. Optical Identification of 3C 48, 3C 196, and 3C 286 with Stellar Objects. *The Astrophysical Journal*, 138:30, July 1963. ADS Bibcode: 1963ApJ...138...30M.
- [2] R. C. Mitchell, B. Didier, S. Ganesh, K. Acharya, R. Khadka, and B. Silwal. Locating Type II-P Supernovae Using the Expanding Photosphere Method. I. Comparing Distances from Different Line Velocities. *The Astrophysical Journal*, 942:38, January 2023. ADS Bibcode: 2023ApJ...942...38M.