

A Carbon-rich Mira variable in a globular cluster: A stellar merger

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The membership of Matsunaga's variable 1, a carbon-rich, mass-losing, Mira variable, in the globular cluster Lynga 7 is discussed on the basis of radial velocities. We conclude that it is a member, the first known C-Mira in a globular cluster. Since such a variable is expected to have an age of $\sim 1 - 2$ Gyr and an initial mass of ~ 1.5 solar masses, we conclude that this star must be the product of a stellar merger.

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The full details of this work are published in [1]

References

- [1] Feast, M. W., Menzies, J. W., & Whitelock, P. A. 2013, MNRAS, 428, L36