

Erratum

Asteroseismological constraints on the pulsating planetary nebula nucleus (PG1159-type) RX J2117.1+3412

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1. Erratum

The value of the expansion age of the planetary nebula of RX J2117.1+3412 (t_{PN}) that appears in the last column and last line in Table 2, and also in the last paragraph of Sect. 7 and fourth paragraph of Sect. 8 is wrong. The mistake originated because we erroneously employed the *diameter* of the nebula ($D_{\text{PN}} = 5.3 \times 10^{13}$ km) instead of the *radius* ($R_{\text{PN}} = D_{\text{PN}}/2 = 2.65 \times 10^{13}$ km) to compute t_{PN} . If we use the radius of the nebula and the expansion velocity of 31 km s^{-1} , we arrive at the correct value for the expansion age of the nebula: $t_{\text{PN}} \sim 2.72 \times 10^4$ yr.

Note that the evolutionary timescale of the central star of RX J2117.1+3412 is $t_* \sim 2.5 \times 10^4$ yr (last column in Table 2). Therefore, by considering the correct value for the expansion age we found that $t_{\text{PN}} \simeq t_*$. This result definitively solves the discrepancy between the RX J2117.1+3412 evolutionary timescale and the size of its nebula (see Appleton et al. 1993).

References

Appleton, P. N., Kawaler, S. D., & Eitter, J. J. 1993, AJ, 106, 1973

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