

## *Erratum*

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

A. H. Córscico<sup>1,2,\*</sup>, L. G. Althaus<sup>1,2,\*</sup>, and M. M. Miller Bertolami<sup>1,2,\*\*</sup>

<sup>1</sup> Facultad de Ciencias Astronómicas y Geofísicas, Universidad Nacional de La Plata, Paseo del Bosque S/N, (1900) La Plata, Argentina

e-mail: [acorsico,althaus,mmiller]@fcaglp.unlp.edu.ar

<sup>2</sup> Instituto de Astrofísica La Plata, IALP, CONICET-UNLP, Argentina

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## **1. Erratum**

The value of the expansion age of the planetary nebula of RX J2117.1+3412 ( $t_{\text{PN}}$ ) 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  $t_{\text{PN}}$ . If we use the radius of the nebula and the expansion velocity of  $31 \text{ km s}^{-1}$ , 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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\* Member of the Carrera del Investigador Científico y Tecnológico, CONICET, Argentina.

\*\* Fellow of CONICET, Argentina.