

Near-IR period-luminosity relations for pulsating stars in ω Centauri (NGC 5139) (Corrigendum)

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An incorrect zero point for the empirical period-luminosity-metallicity (PL-Z) relations for RR Lyrae (RRL) stars in ω Centauri (NGC 5139) was inadvertently reported in Table 2 and Eqs. (4) and (5) of our original paper. The corrected table and equations are given below. The actual analysis that is described in the paper was based on the correct zero points, and so all of the results reported in our original publication remain unchanged.

Table 2. Empirical PL-Z relations for RRL stars in ω Cen.

Band	a	b	c	R^2
J	-1.774 ± 0.061	0.153 ± 0.027	13.146 ± 0.075	0.936
K_S	-2.232 ± 0.044	0.141 ± 0.020	12.817 ± 0.054	0.985

Notes. The relation has the form $m_X = a \log P + b [\text{Fe}/\text{H}] + c$, where X corresponds to the bandpass.

$$M_J(\text{RRL}) = -(1.77 \pm 0.06) \log P + (0.15 \pm 0.03)[\text{Fe}/\text{H}] - (0.56 \pm 0.08), \quad (4)$$

$$M_{K_S}(\text{RRL}) = -(2.23 \pm 0.04) \log P + (0.14 \pm 0.02)[\text{Fe}/\text{H}] - (0.89 \pm 0.05). \quad (5)$$

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