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Corrigendum

Infrared excess around nearby red giant branch stars and Reimers law

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Key words. circumstellar matter – planetary systems – stars: fundamental parameters – stars: mass loss – errata, addenda

It has been pointed out to the author that in Sect. 6 of this paper, an incorrect mass was used to calculate the predicted mass loss for the cluster NGC 6791. The mass used of 1.6 $M_{\odot}$ referred to the other cluster discussed in Miglio et al. (2012), NGC 6819.

Although the values given in Table 6 of the paper are correct, the inferences drawn from them need to be modified, even though all conclusions remain unchanged.

Table 1 lists the predicted mass loss for an initial mass of 1.2 $M_{\odot}$ (Miglio et al. determined the mass of stars on the RGB of NGC 6719 to be about 1.23 $M_{\odot}$).

As the mass loss for a lower initial mass is larger on the RGB, the scaling factors η_1 and η_2 are lower, namely $\eta_1 = 7.5 \pm 4$ and $\eta_2 = 9 \pm 5$.

The factor mentioned in the sentence of the abstract "Using a scaling factor of $\sim 10 \pm \sim 5$, both relations can fit this value". should be $\sim 8 \pm \sim 5$.

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Table 1. Mass lost on the RGB for a 1.2 $M_{\odot}$ star.

Relationship	ΔM ($M_{\odot}$)	$\dot{M}$ (at $L = 1000\ L_{\odot}$) $10^{-9}\ M_{\odot}\ \mathrm{yr}^{-1}$	Remark
$1.0 \log(LR/M) - 13.097$	0.090	6.9	Reimers law $\eta = 0.20$
$0.6 \log(LR/M) - 11.9$	0.012	1.1	
$0.8 \log(LR/M) - 11.9$	0.127	11.1	
$0.4 \log(LR/M) - 11.9$	0.001	0.11	
$0.6 \log(LR/M) - 11.0$	0.096	9.1	
$0.6 \log(LR/M) - 12.8$	0.002	0.14	
$1.0 \log(L) - 12.0$	0.010	1.0	
$1.3 \log(L) - 12.0$	0.087	8.0	
$0.7 \log(L) - 12.0$	0.001	0.13	
$1.0 \log(L) - 11.1$	0.083	8.0	
$1.0 \log(L) - 12.9$	0.001	0.12	

References

Miglio, A., Brogaard, K., Stello, D., et al. 2012, MNRAS, 419, 2077