

Erratum

Technetium and lithium in Galactic bulge AGB stars

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A&A 463, 251–259 (2007), DOI: 10.1051/0004-6361:20065463

A&A 471, L41–L45 (2007), DOI: 10.1051/0004-6361:20077879

Key words. stars: late-type – stars: AGB and post-AGB – stars: evolution – errata, addenda

The near-IR photometry of bulge AGB variables analysed in Uttenthaler et al. (2007a) and Uttenthaler et al. (2007b) was de-reddened incorrectly, because of erroneous galactic latitudes used. Table 1 reproduces the corrected mean J_0 and K_0 magnitudes of the stars.

When using the thus corrected values, one star (M 1313) appears as strong outlier in the CMD with a $(J - K)_0$ colour of 1.61. For this star, ESO near-IR photometry has been acquired at two epochs (Schultheis et al. 1998). Using the ESO photometry only, M 1313 would have $(J - K)_0 = 1.71$. We suspect that the ESO photometry of M 1313 is in error, too. We thus quote the J_0 and K_0 magnitudes based on the 2MASS measurement only, which yields $(J - K)_0 = 1.47$.

We want to note that five out of 27 spectroscopically confirmed oxygen-rich sample stars have a $(J - K)_0$ colour redder than the commonly used limit between oxygen-rich M-type and carbon-rich C-type stars of 1.4 (Battinelli et al. 2007).

The main conclusions drawn in Uttenthaler et al. (2007a) and Uttenthaler et al. (2007b) remain unaltered. The bolometric magnitudes of the Tc-rich as well as of the Li-rich stars identified in these papers are altered by only a few 0^m01 at most. The biggest consequence is that several sample stars turn out to be bluer in $(J - K)_0$ after this correction, and the isochrone with 5 Gyr age and solar metallicity of Girardi et al. (2000) now well describes the observed colour range when using our $(J - K)_0$ vs. T_{eff} calibration (see Schultheis et al. 1998). Nevertheless, the observed AGB tip luminosity is higher than that of the isochrones from Girardi et al. (2000).

Table 1. Corrected J_0 and K_0 values of the sample stars. The bolometric magnitude M_{bol} of the stars is corrected for the bulge depth scatter (see Uttenthaler et al. 2007a, for details)

Name	J_0 [mag]	K_0 [mag]	M_{bol}
M 45	8.10	6.65	-4.53
M 100	7.66	6.37	-4.77
M 143	9.21	7.96	-4.03
M 195	8.79	7.58	-4.16
M 277	8.43	7.11	-4.51
M 315	7.91	6.54	-4.92
M 331	8.06	6.60	-4.80
M 626	8.45	7.19	-4.78
M 794	7.39	6.04	-4.78
M 1147	7.27	5.77	-5.27
M 1179	8.56	7.20	-4.58
M 1287	7.95	6.64	-4.85
M 1313	7.71	6.24	-5.19
M 1347	7.47	5.99	-5.43
S70	8.44	7.15	-3.60
S328	8.95	7.75	-3.58
S639	8.71	7.45	-3.62
S719	7.91	6.61	-4.64
S942	7.89	6.55	-5.00
S1002	8.30	7.08	-3.94
S1008	7.97	6.72	-4.28
S1059	8.92	7.69	-3.34
S1176	8.27	6.94	-3.79
S1204	8.64	7.31	-3.92
S1470	8.55	7.34	-3.84
S1517	8.94	7.68	-3.86
S1991	9.17	8.02	-3.09

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