



Correction: Secular orbital dynamics of the innermost exoplanet of the ν -Andromedæ system

Rita Mastroianni¹ · Ugo Locatelli²

Published online: 7 October 2023
© The Author(s) 2023

Correction to: Celestial Mechanics and Dynamical Astronomy (2023) 135:28
<https://doi.org/10.1007/s10569-023-10141-8>

In the original publication, the Tables (2,3,4,5) were published online with incorrect values. The correct version is given in this correction. The original article has been corrected.

The original article can be found online at <https://doi.org/10.1007/s10569-023-10141-8>.

✉ Rita Mastroianni
rita.mastroianni@math.unipd.it
Ugo Locatelli
locatelli@mat.uniroma2.it

¹ Dipartimento di Matematica “Tullio Levi-Civita”, Università degli Studi di Padova, Via Trieste 63, 35121 Padua, PD, Italy

² Dipartimento di Matematica, Università degli Studi di Roma “Tor Vergata”, Via della Ricerca Scientifica 1, 00133 Rome, RM, Italy

Table 2 Decomposition of the signal $\xi_2(t) + i \eta_2(t)$ as it is provided by the FA

s	$\nu_T^{(s)}$	$k_3^{(s)}$	$k_4^{(s)}$	$k_5^{(s)}$	$ \nu_T^{(s)} - \mathbf{k}^{(s)} \cdot \boldsymbol{\omega} $	A_s	ϑ_s
0	-0.002436993581	1	0	0	0.0000	0.38182	4.611
1	-0.001042747520	0	1	0	3.9608×10^{-8}	0.14219	2.434
2	0.012206529795	-1	0	2	9.2959×10^{-9}	0.09093	3.898
3	-0.003831238725	2	-1	0	3.8689×10^{-8}	0.04035	3.593

Table 3 Decomposition of the signal $\xi_3(t) + i \eta_3(t)$ as it is provided by the FA

s	$\nu_T^{(s)}$	$k_3^{(s)}$	$k_4^{(s)}$	$k_5^{(s)}$	$ \nu_T^{(s)} - \mathbf{k}^{(s)} \cdot \boldsymbol{\omega} $	A_s	ϑ_s
0	-0.002436996982	1	0	0	3.4003×10^{-9}	0.56387	1.469
1	-0.001042787127	0	1	0	0.0000	0.11039	2.437
2	-0.003831009790	2	-1	0	1.9025×10^{-7}	0.02781	3.566
3	0.012206539384	-1	0	2	2.9324×10^{-10}	0.02405	0.7556

Table 4 Decomposition of the signal $P_2(t) + i Q_2(t)$ as it is provided by the FA

s	$\nu_T^{(s)}$	$\tilde{k}_3^{(s)}$	$\tilde{k}_4^{(s)}$	$\tilde{k}_5^{(s)}$	$ \nu_T^{(s)} - \tilde{\mathbf{k}}^{(s)} \cdot \boldsymbol{\omega} $	\tilde{A}_s	$\tilde{\vartheta}_s$
0	0.004884772754	0	0	1	0.0000	0.55389	2.670
1	-0.009758565517	2	0	-1	1.944×10^{-7}	0.04977	0.1914
2	-0.008364520549	1	1	-1	3.2915×10^{-8}	0.02243	4.351
3	0.006278992216	-1	1	1	1.3007×10^{-8}	0.01285	0.5208
4	0.003490558045	1	-1	1	8.2559×10^{-9}	0.01004	1.678

Table 5 Decomposition of the signal $P_3(t) + i Q_3(t)$ as it is provided by the FA

s	$\nu_T^{(s)}$	$\tilde{k}_3^{(s)}$	$\tilde{k}_4^{(s)}$	$\tilde{k}_5^{(s)}$	$ \nu_T^{(s)} - \tilde{\mathbf{k}}^{(s)} \cdot \boldsymbol{\omega} $	\tilde{A}_s	$\tilde{\vartheta}_s$
0	0.004884772773	0	0	1	1.8321×10^{-11}	0.56348	5.812
1	-0.009758565225	2	0	-1	1.9469×10^{-7}	0.05154	3.333
2	-0.008364520902	1	1	-1	3.2563×10^{-8}	0.02335	1.209
3	0.003490542605	1	-1	1	2.3696×10^{-8}	0.01343	4.821
4	0.006278974290	-1	1	1	4.9181×10^{-9}	0.00976	3.664

Open Access This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory

regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit <http://creativecommons.org/licenses/by/4.0/>.

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.