



# Corrigendum: On the Nature of the Core of $\alpha$ Centauri A: The Impact of the Metallicity Mixture

Benard Nsamba<sup>1,2\*</sup>, Tiago L. Campante<sup>1,2</sup>, Mário J. P. F. G. Monteiro<sup>1,2</sup>, Margarida S. Cunha<sup>1,2</sup> and Sérgio G. Sousa<sup>1,2</sup>

# OPEN ACCESS

# Edited by:

Jadwiga Daszynska-Daszkiewicz, University of Wrocław, Poland

#### Reviewed by:

Joyce Ann Guzik, Los Alamos National Laboratory (DOE), United States

\*Correspondence: Benard Nsamba benard.nsamba@astro.up.pt

#### Specialty section:

This article was submitted to Stellar and Solar Physics, a section of the journal Frontiers in Astronomy and Space Sciences

> Received: 02 July 2019 Accepted: 04 October 2019 Published: 25 October 2019

#### Citation:

Nsamba B, Campante TL, Monteiro MJPFG, Cunha MS and Sousa SG (2019) Corrigendum: On the Nature of the Core of α Centauri A: The Impact of the Metallicity Mixture. Front. Astron. Space Sci. 6:67. doi: 10.3389/fspas.2019.00067 <sup>1</sup> Instituto de Astrofísica e Ciências do Espaço, Universidade do Porto, Porto, Portugal, <sup>2</sup> Departamento de Física e Astronomia, Faculdade de Ciências da Universidade do Porto, Porto, Portugal

Keywords: HD 128620, asteroseismology, stellar modeling, fundamental parameters, convection, radiation

### A Corrigendum on

## On the Nature of the Core of $\alpha$ Centauri A: The Impact of the Metallicity Mixture

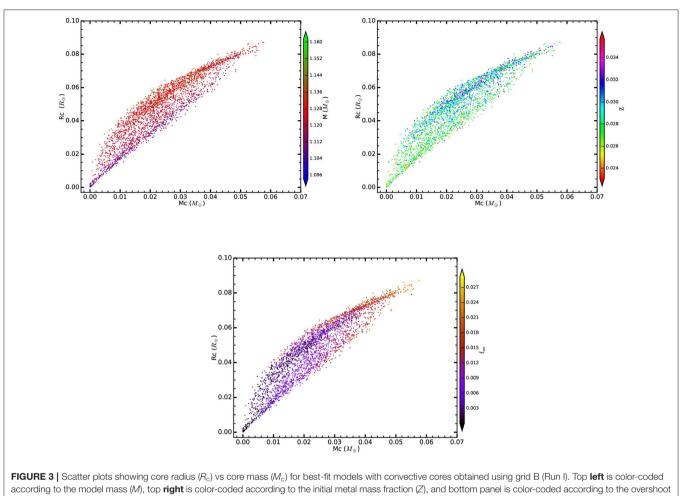
by Nsamba, B., Campante, T. L., Monteiro, M. J. P. F. G., Cunha, M. S., and Sousa, S. G. (2019). Front. Astron. Space Sci. 6:25. doi: 10.3389/fspas.2019.00025

In the original article, there was a mistake in Figure 3 as published.

This figure aimed at exploring trends regarding the contribution from the dominant model properties (i.e., mass, initial metal mass fraction, and overshoot parameter) toward the convective core sizes of the best-fit models of  $\alpha$  Centauri A. However, the data plotted in **Figure 3** in the original article represents the models with convective cores that satisfy a probability threshold required to fit the sets of observables (i.e., seismic observables, classical observables, and an interferometric radius), instead of showing the best-fit models with convective cores that satisfy the sets of observables within 1 $\sigma$ . The corrected **Figure 3** appears below.

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

Copyright © 2019 Nsamba, Campante, Monteiro, Cunha and Sousa. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.



parameter ( $f_{ov}$ ).