Erratum: A global analysis of charmless two body hadronic decays for anti-triplet charmed baryons

Fei Huang, a Zhi-Peng Xing b,1 and Xiao-Gang He a,b,c

a INPAC, Key Laboratory for Particle Astrophysics and Cosmology (MOE), Shanghai Key Laboratory for Particle Physics and Cosmology, School of Physics and Astronomy, Shanghai Jiao Tong University, Shanghai 200240, China
b Tsung-Dao Lee Institute, Shanghai Jiao Tong University, Shanghai 200240, China
c NCTS and Department of Physics, National Taiwan University, Taipei 10617, Taiwan

E-mail: fhuang@sjtu.edu.cn, zpxing@sjtu.edu.cn, hexg@sjtu.edu.cn

Erratum to: JHEP03(2022)143

ArXiv ePrint: 2112.10556

There was a numerical error in 15th line of table 1. for the decay channel $\Lambda_c^+ \to \Sigma^+ K_S^0/K_L^0$ due to misuse of a normalization factor $1/2\sqrt{3}$ for the amplitude instead of the correct one $1/\sqrt{2}$, and obtained a branching ratio of $(0.0103 \pm 0.0042) \times 10^{-2}$. We have now corrected this mistake and the result in table 1 should be changed to

| channel                      | SU(3) amplitude | branching ratio ($10^{-2}$) | $\alpha$ |
|------------------------------|-----------------|-----------------------------|----------|
| $\Lambda_c^+ \to \Sigma^+ K_S^0/K_L^0$ | $\sin \theta (-b_6 + b_{15} + d_6 - d_{15})$ | $0.062 \pm 0.025$ | $-0.13 \pm 0.98$ |

Table 1. SU(3) amplitudes and predicted branching fractions (the third column) and polarization parameters (the fourth column) of anti-triplet charmed baryons decays into an octet baryon and an octet meson.

All other the conclusions presented in the paper remain unchanged. The new result is in agreement with BESIII recent data [1].

1 Corresponding author.

https://doi.org/10.1007/JHEP09(2022)087
Open Access. This article is distributed under the terms of the Creative Commons Attribution License (CC-BY 4.0), which permits any use, distribution and reproduction in any medium, provided the original author(s) and source are credited. SCOAP3 supports the goals of the International Year of Basic Sciences for Sustainable Development.

References

[1] BESIII collaboration, Measurement of Branching Fractions of Singly Cabibbo-suppressed Decays $\Lambda_c^+ \rightarrow \Sigma^0 K^+$ and $\Sigma^+ K_S^0$, arXiv:2207.10906 [INSPIRE].