



Correction to: A formulation of Rényi entropy on C^* -algebras

Farrukh Mukhamedov¹ · Kyouhei Ohmura² · Noboru Watanabe²

Published online: 15 February 2020

© Springer Science+Business Media, LLC, part of Springer Nature 2020

Correction to: Quantum Information Processing (2019), 18:318 <https://doi.org/10.1007/s11128-019-2430-3>

The original version of this article unfortunately contained an error in the proof of Theorem 13. The correct transformation of the proof of Theorem 13 is as follows,

$$\begin{aligned}(1 - \alpha)^{-1} \log \sum_{n,k} (\lambda_n \mu_k^{(n)})^\alpha &= (1 - \alpha)^{-1} \log \sum_n (\lambda_n)^\alpha \sum_k (\mu_k^{(n)})^\alpha \\ &\geq (1 - \alpha)^{-1} \log \sum_n (\lambda_n)^\alpha \\ &= S_\alpha^{K(\theta)}(\varphi)\end{aligned}$$

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

The original article can be found online at <https://doi.org/10.1007/s11128-019-2430-3>.

✉ Kyouhei Ohmura
6317701@ed.tus.ac.jp; ohmura.kyouhei@gmail.com

Farrukh Mukhamedov
far75m@yandex.ru; farrukh.m@uaeu.ac.ae

Noboru Watanabe
watanabe@is.noda.tus.ac.jp

¹ Department of Mathematical Sciences, College of Science, United Arab Emirates University, 15551 Al-Ain, United Arab Emirates

² Department of Information Sciences, Tokyo University of Science, Noda City, Chiba 278-8510, Japan