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Abstract

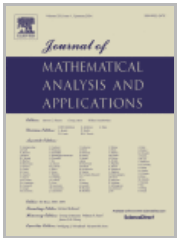
Keywords

References



Journal of Mathematical Analysis and Applications

Volume 529, Issue 1, 1 January 2024, 127653



Corrigendum


Corrigendum to “Ternary operator categories” [J. Math. Anal. Appl. 505 (2) (2022) 125590]

[Robert Pluta](#)^a , [Bernard Russo](#)^b  

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<https://doi.org/10.1016/j.jmaa.2023.127653> 

Refers to [Ternary operator categories](#)
Journal of Mathematical Analysis and Applications, Volume 505, Issue 2, 15 January 2022, Pages 125590
Robert Pluta, Bernard Russo
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Abstract

We acknowledge an oversight in [1]. The correction, which will appear in a new publication, leads to adjustments in the one section of [1] which is affected by it, and to a topic for further study.

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Keywords

C*-ternary ring; Normed standard embedding; Approximate identity; Semisimple

One of the results of [1], namely, [1, Prop. 2.7], is not accurately formulated as stated. It is not true that the normed standard embedding $\mathscr{A}(M)$ of a C*-ternary ring M is always a C*-algebra.

The corrected version of [1], which appears in [2], states that $\mathscr{A}(M)$ is the direct sum of a C*-algebra (corresponding to the positive sub-C*-ternary ring M_+ of M) and an algebra \mathscr{B} (corresponding to the negative sub-C*-ternary ring M_- of M). The algebra \mathscr{B} can be given a complete algebra norm with respect to which it has a continuous involution and an approximate identity. Properties of this class of Banach algebras are a topic worthy of further study. We began that study in the forthcoming paper [2] by showing, among other things, that it is semisimple.

The above-mentioned oversight affects only the results in [1, Section 4]. All other results of [1] remain valid as stated. The corresponding adjustments needed in [1, Section 4] are also included in [2].

References

- [1]

Robert Pluta, Bernard Russo
Ternary operator categories
J. Math. Anal. Appl., 505 (2) (2022), Article 125590, [10.1016/j.jmaa.2021.125590](#) 
MR4304265
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- [2]

Robert Pluta, Bernard Russo
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