Erratum

Erratum to: Automorphisms and Dilation Theory of Triangular UHF Algebras

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It has come to the author's attention that Proposition 3.3 in the original article is false. This proposition stated that every triangular UHF algebra is isometrically isomorphic to a triangular UHF algebra with regular embeddings. See Power's book [1] or [2].

Recall that a unital embedding $\varphi : \mathcal{T}_{k_n} \rightarrow \mathcal{T}_{k_{n+1}}$ is called *regular* when it preserves the normalizer:

$$\varphi(N_{C_n}(\mathcal{T}_{k_n}) \subset N_{C_{n+1}}(\mathcal{T}_{k_{n+1}}), \text{ where} \\ N_{C_n}(\mathcal{T}_{k_n}) = \{v \in \mathcal{T}_{k_n} \text{ partial isometry} : vC_nv^* \subset C_n, v^*C_nv \subset C_n\}.$$

The assumption that the embeddings are regular was mistakenly absent from the hypotheses for the definition of the topological binary relation (cf. [1]), and this concept was the main tool in the incorrect proof. However, by simply replacing the use of Proposition 3.3 at the beginning of every proof in the remainder of the paper and adding the hypothesis that we are dealing with algebras with regular embeddings the rest of the paper is correct. Note that one needs no regularity assumption in Sect. 6, Dilation theory.

References

- [1] Power, S.: Limit algebras: an introduction to subalgebras of C^* -algebras. In: Pitman Research Notes in Mathematics, vol. 278. Longman Scientific & Technical, Harlow (1992)

- [2] Power, S.: Singular projection nests in UHF C^* -algebras. Houston J. Math. **17**, 567–579 (1991)

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