ERRATUM TO "*-VALUATIONS AND ORDERED *-FIELDS"

BY

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In the above article (Trans. Amer. Math. Soc. 262 (1980), 219–243), the statement labeled "(b)" on p. 227, which asserts that the tensor product of quaternion *-fields never admits an ordering, does not follow from the proof given. The argument supplied proves only this much: If $\mathbb{K}_1$ and $\mathbb{K}_2$ are quaternion *-fields with respective bases $\{1, i, j, k\}$ and $\{1, u, v, w\}$ over a common center $\Lambda$, and if one of these basis elements has square congruent to $-1 \mod \Lambda^2$, then $\mathbb{K}_1 \otimes \mathbb{K}_2$ with its usual involution does not admit an ordering. Whether the nonorderability continues to hold without the qualifying restriction on a basis element seems to be an open question.

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