TRANSACTIONS OF THE
AMERICAN MATHEMATICAL SOCIETY
Volume 267, Number 1, September 1981

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

BY

S. S. HOLLAND, JR.

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 $\mathcal{K}_1$ and $\mathcal{K}_2$ are quaternion *-fields with respective bases $\{1, i, j, k\}$ and $\{1, u, v, w\}$ over a common center Λ, *and* if one of these basis elements has square congruent to $-1 \bmod \Lambda^2$, then $\mathcal{K}_1 \otimes \mathcal{K}_2$ 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.

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF MASSACHUSETTS, AMHERST, MASSACHUSETTS 01003

ABCDEFGHIJ–CM–8987654321