CORRECTION AND SUPPLEMENT TO THE PAPER *THE DIRECT PRODUCT OF RIGHT SINGULAR SEMIGROUPS AND CERTAIN GROUPOIDS*[1]

T. TAMURA, R. B. MERKEL AND J. F. LATIMER

First we would like to correct a few places in the paper as follows: p. 122, 2nd line from the bottom (condition P5.5), next to "two-sided identity," add

$$\text{“}e_\alpha \quad \text{and} \quad e_\alpha e_\beta = e_\beta.\text{”}$$

p. 123, 1st line,

delete "P5.3".

p. 123, 2nd line from the bottom (the proof of Theorem 6)

"P5.3" is replaced by "P5.5".

To make sure, we shall restate the changed part:

P5.5. There is a decomposition $\{S_\alpha\}$ of S such that each S_α is a groupoid with a two-sided identity e_α and $e_\alpha e_\beta = e_\beta$.

VIII$_2'$. {P5.1, P5.2, P5.5}.

Theorem 6 can be restated as follows:

THEOREM 6. *A groupoid S is an M-groupoid if and only if S is a right zero band of groupoids S_α with identity e_α, $S=\bigcup_{\alpha\in R} S_\alpha$, $S_\alpha S_\beta \subset S_\beta$ such that $e_\alpha e_\beta = e_\beta$.*

In other words:

Let S be a right zero band of groupoids S_α with an identity e_α. Then S is the direct product of a right zero band and a groupoid with an identity if and only if

$$e_\alpha e_\beta = e_\beta.$$

Let VIII$_3'$ denote the original VIII$_2'$, that is,

VIII$_3'$. {P5.1, P5.2, P5.3 with the original P5.5}.

VIII$_3'$ is a sufficient condition for S to be an M-groupoid, but not a necessary condition.

We thank Professor Reikichi Yoshida for his remark.

Received by the editors March 22, 1965.

[1] Proc. Amer. Math. Soc. **14** (1963), 118–123.