Tôhoku Math. Journ. 28 (1976), 467.

## CORRECTION TO "STOCHASTIC INTEGRAL OF $L_2$ -FUNCTIONS WITH RESPECT TO GAUSSIAN PROCESSES''\*)

## J. Yeh

## (Received October 17, 1975)

The proof of (7) and (8) of Lemma 4 as given on p. 179 is incorrect. To give a correct proof with as little change as possible, replace the condition 3° on p. 176 by the slightly stronger condition that  $\partial^2 \Gamma / \partial t \partial s$  is continuous on  $T_1 \cup T_2$ . The equation (13) on p. 179 should then be replaced by the following:

For  $k \neq l$ 

$$(14) \qquad \Delta\Gamma_{k,l} = \int_{[a_{k-1},a_k]} \frac{\partial\Gamma}{\partial s}(s, a_l) m_L(ds) - \int_{[a_{k-1},a_k]} \frac{\partial\Gamma}{\partial s}(s, a_{l-1}) m_L(ds)$$
$$= \int_{[a_{k-1},a_k]} \left\{ \int_{[a_{l-1},a_l]} \frac{\partial^2\Gamma}{\partial t\partial s}(s, t) m_L(dt) \right\} m_L(ds)$$
$$= \int_{[a_{k-1},a_k] \times [a_{l-1},a_l]} \frac{\partial^2\Gamma}{\partial t\partial s}(s, t) m_L(d(s, t))$$
$$= \frac{\partial^2\Gamma}{\partial t\partial s}(a_k^*, a_l^*)(a_k - a_{k-1})(a_l - a_{l-1})$$

with some  $a_k^* \in [a_{k-1}, a_k]$  and  $a_l^* \in [a_{l-1}, a_l]$  from the continuity of  $\partial^2 \Gamma / \partial t \partial s$ . Then from the convergence of the improper Riemann integral of  $\partial^2 \Gamma / \partial t \partial s$ on  $T_1 \cup T_2$ , for  $\varepsilon > 0$  there exists  $\eta > 0$  such that

$$\Big| S_{\scriptscriptstyle 1}(\mathfrak{P}) - \int_{ arLapha_1 \cup arLapha_2} rac{\partial^2 arLapla}{\partial t \partial s} (s,\,t) ds dt \Big| < arepsilon \qquad ext{whenever} \quad |\mathfrak{P}| < \eta \;.$$

From this and (12) we have (7). In exactly the same way (8) follows from (14). Also (10) in the proof of Theorem 2 can be established by using (14).

<sup>\*)</sup> Tôhoku Math. J., Vol. 27 (1975), 175-186.