

on  $\Omega_2$  for which T operation has the sense.

**Theorem 3.**  $T([\mathcal{U}])$  — the T image of  $[\mathcal{U}]$  — coincides with  $[\Omega_1, \Omega_2]$  and S operation preserves the minimality if it has the sense.

It will be unnecessary to state a detailed proof, since the proposition can be similarly deduced as in theorem 2.

This new class  $[\Omega_1, \Omega_2]$  and its dimension — relative harmonic dimension — shall throw a new light to the structure of the ideal boundary.

### References

- M.Heins. Riemann surfaces of infinite genus. Ann. of Math. 55(1952), pp. 296-317.  
 Z.Kuramochi. In press.  
 M.Ozawa. [1] On harmonic dimension. These Reports. 1954 No.2, pp.33-37.  
 [2] On harmonic dimension. II. These Reports. 1954 No.2, pp.55-58.

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### CORRECTIONS TO THE PREVIOUS PAPER "ON HARMONIC DIMENSION II"

These Reports, No. 2, 1954. pp. 55-58.

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Page 57, the right part, line 16.  
 For "value  $\frac{\partial}{\partial v}(v_1 - v_2); v_1, v_2 \in Q_\Omega$ ." read "value  $\frac{\partial}{\partial v}(v_1 - v_2)$  on  $\tau$  and  $\frac{\partial}{\partial v} \equiv 0$  on  $\Gamma - \tau; v_1, v_2 \in Q_\Omega$ , where we shall fix a local parameter induced by the harmonic measure  $\omega(z, \tau, \Omega)$  such that  $\omega = 1$  on  $\tau$  and  $= 0$  on  $\Gamma - \tau$ ."

Page 57, the right part, line 14-23. Another proof may be carried out as follows: Let  $X \in S_\Omega$  such that

$$X = \frac{\frac{\partial v_2}{\partial v}}{\frac{\partial v_1}{\partial v}} \quad \text{on } \tau$$

$$\frac{\partial}{\partial v} X = 0 \quad \text{on } \Gamma - \tau,$$

then we see

$$\begin{aligned} & \int_{\tau} (1 - X)^2 \frac{\partial v_1}{\partial v} ds \\ &= -1 + \int_{\tau} X \frac{\partial v_2}{\partial v} ds \\ &= -1 + \int_{\tau} X \frac{\partial v_1}{\partial v} ds \\ &= -1 + \int_{\tau} \frac{\partial v_2}{\partial v} ds \\ &= 0, \end{aligned}$$

which leads to the desired fact  $v_1 \equiv v_2$ . — This proof is the same as in Heins' proof. (Cf. Heins, Riemann surfaces of infinite genus. Ann. of Math. 55(1952) 296-317. Theorem 11.2.)