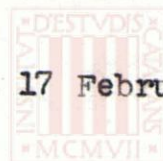


Barcelona 17 February 1960



0082
UAB
Biblioteca de Ciències
i d'Enginyeries

fundació FERRAN SUNYER I BALAGUER

Professor L.A. Rubel
University of Illinois
Urbana, Illinois

Dear Professor Rubel,

I received your kind letter of the 3rd February to which I am pleased to correspond.

In the part of my paper that concerns Rahman's work I write:

"4. I believe that proofs of theorem 1 and of the second part of theorem 2 of Rahman are not complet; since σ_j^* can be a discontinuous function of σ_j , and we". "The results however might be exact; particularly if $\rho < \infty$ I think it likely they are exact, but the proofs of these results seems to be rather difficult."

Moreover in the same paper I state the following results:

THEOREMA A. If $h = \infty$, Then the type T_S of $f(s)$ in each horizontal strip $S(\pi a)$, with $a > 0$, satisfies $T_S = T$.

THEOREM B. If we suppose $h > 0$, in each horizontal strip $S(\pi a)$, with $a > D$, the type T_S satisfies

$$T \geq T_S \geq e^{-\beta \rho} T$$

where $\beta = \pi D + D(7 - 3 \cdot \log(hD))$.

The theorem B include the theorem A.

THEOREM C. If we suppose $h > 0$, in each horizontal strip $S(\pi a)$, with $a > \Delta$, (where Δ is the maximum density of $\{\lambda_n\}$) the type T_S satisfies $T_S = T$.

As you see I did find neither a proof nor a counterexample of theorem 1 and the second part of theorem 2 of Rahman; but posteriorly with a definition slightly diferent of the lower



UAB

Biblioteca de Ciències
i d'Enginyeries

order in a horizontal strip I have proved two results similar to Rahman's theorems.

I wish to remain

yours sincerely