

**REFeree's REPORT ON THE ARTICLE OF L. WEISZ  
SOME FOOTPRINTS OF MARCINKIEWICZ IN SUMMABILITY  
THEORY**

In this survey paper the author considers Marcinkiewicz's work in summability theory and its impact up to the present days. He presents four of Marcinkiewicz's fundamental theorems and several (recent) extensions and generalizations. The author investigates convergence and summations of one and multi-dimensional trigonometric, as well as Walsh and Ciesielski-Fourier series. First he gives the corresponding results in the one-dimensional case and then the generalizations for higher dimensions. Two types of summability methods are investigated, the Fejér and Cesàro or  $(C; \alpha)$  methods. The Fejér summation is a special case of the Cesàro method,  $(C; 1)$  is exactly the Fejér method.

This paper is well written, mathematically correct, and is worth publishing.

Here is a list of misprints:

1. page 6.

In the definition of  $\sigma_n^\alpha$ : after the first "=",  $i$  should be replaced by  $j$  and  $n_i$  should be  $n_j$ .

2. page 7.

The definition of the norm

$$\|f\|_{H_p(X^d)} = \left\| \sup_{t_k > 0, k=1, \dots, d} |(f * (P_{t_1}^X \otimes \dots \otimes P_{t_d}^X))(x)| \right\|_p < \infty$$

should be

$$\|f\|_{H_p(X^d)} = \left\| \sup_{t_k > 0, k=1, \dots, d} |f * (P_{t_1}^X \otimes \dots \otimes P_{t_d}^X)| \right\|_p < \infty$$

similarly, we should make some changes in the norm:  $\|f\|_{H_p^i(X^d)}$ .

3. page 16.

reference [55], 1999 should be 2000.

4. page 3, there should be a comma ", " in theorem 1 before the word "then".

Similarly, we should do the same thing in Corollary 1 on page 4; theorem 4 on page 5; theorem 6 on page 7; theorem 8, corollary 2,3,4 on page 8; .....