

## **SOME PROPERTIES OF THE WALSH-NÖRLUND MEANS**

Ushangi Goginava

Ivane Javakhishvili Tbilisi State University

Ilia Vekua Institute of Applied Mathematics

We give a necessary and sufficient condition on monotone weights, which guaranties the Nörlund means of Walsh-Fourier series converge in  $L_1$  norm and  $C_W$  norm.

It is established a necessary and sufficient condition in order Walsh-Nörlund means of all integrable functions were convergent almost everywhere.

Will be proved the necessary and sufficient conditions in order maximal operator of Walsh-Nörlund means with non-increasing weights to be bounded from the dyadic Hardy space  $H_p(\mathbb{I})$  to the space  $L_p(\mathbb{I})$ .