REMARKS ON WEIGHTED ORLICZ SPACES ON LOCALLY COMPACT GROUPS

SEYYED MOHAMMAD TABATABAIE, ALIREZA BAGHERI SALEC AND MARYAM ZARE SANJARI

Abstract. In this paper, we give some equivalent condition for a weighted Orlicz space $L^\Phi_w(G)$ on a locally compact group $G$ to be a convolution Banach algebra, and by Jensen’s inequality we study a hereditary property for weighted Orlicz algebras on quotient spaces. In addition, we characterize compact convolution operators from $L^1_w(G)$ into $L^\Phi_w(G)$.


Keywords and phrases: Locally compact group, weighted Orlicz algebra, Young function, convolution operator, compact operator.

REFERENCES