

ON CONVERGENCE OF GENERALIZED CHESARO MEANS OF THE GENERALIZED DIRICHLET'S INTEGRALS

Gogi Kezheradze

e-mail: gogi.kezheradze260@ens.tsu.edu.ge

Department of Mathematics, Faculty of Exact and Natural Sciences,

Ivane Javakhishvili Tbilisi State University,

University St.2, Tbilisi 0177, Georgia

Deviation between function and it's Chesaro (C, α_n) $(0 < \alpha_n < 1)$ means was evaluated in continuous functions space by Teimuraz Akhobadze, in terms of modulus of continuity, in his article. In the given paper it's given evaluation of difference between function and it's (C, α_n) $(0 < \alpha_n < 1)$ means of the generalised Dirichlet's integrals, in terms of modulus of continuity and the reminder term which belongs to the class E . Besides, as a result it's given evaluation for a particular α_n and $\omega(t)$ modulus.