

Abstract :

Is showed a problem studied in cooperation with Professor Atsushi Tachikawa. We treat the regularity problem for minimizers

$u(x) :$
of quadratic and nonquadratic growth functional
 $\int_{\Omega} A(x) |\nabla u|^p dx$

About the dependence on the variable x is assumed only that $A(x)$ is in the class VMO, Vanishing Mean Oscillation class, as a function of x . Namely, is not assumed the continuity of A with respect to x . Are considered both partial and global regularity of the minimizer u