ASYMPTOTIC BEHAVIOR OF RADIAL MINIMIZERS OF A $p$-ENERGY FUNCTIONAL WITH NONVANISHING DIRICHLET BOUNDARY CONDITION

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Abstract. This paper is concerned with a $p$-energy functional with nonvanishing Dirichlet boundary condition. The authors prove the $W^{1,p}_{\text{loc}}$ convergence of the radial minimizer, and discuss the location of the zeros of this minimizer. In addition, an estimate of the convergence rate of the minimizer is given by means of the iterative approach.


Keywords and phrases: $p$-energy functional, radial minimizer, $W^{1,p}_{\text{loc}}$ convergence, location of the zeros, estimate of the convergence rate.

REFERENCES