

Regularity for the p -Laplace equation and system in minimally regular domains

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Some aspects of the global regularity of solutions to boundary value problems for nonlinear elliptic equations and systems of p -Laplacian type will be discussed. In particular, second-order regularity properties of solutions, and the boundedness of their gradient will be focused. The results to be presented are optimal as far as the regularity of the right-hand sides of the equations and of the boundary of the ground domains are concerned. The talk is based on joint researches with V.Maz'ya.