Outi Elina Maasalo, Anna Zatorska–Goldstein: *Stability of quasiminimizers of the p–Dirichlet integral with varying p on metric spaces*; Helsinki University of Technology, Institute of Mathematics, Research Reports A500 (2006).

Abstract: *We prove a stability result, with respect to the varying exponent p, for a family of quasiminimizers of the p–Dirichlet energy functional on a doubling metric measure space. In addition we prove global higher integrability for upper gradients of quasiminimizers with fixed boundary data, provided the boundary data belongs to a slightly better Newtonian space.*

AMS subject classifications: Primary: 49Q20, Secondary: 31C45, 49N60

Keywords: Caccioppoli inequality, capacity, doubling measure, Gehring lemma, metric space, Newtonian space, p–fatness, Poincaré inequality, quasiminimizer, stability

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