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Regularity for p-Harmonic Systems with Gradient Below the Critical Growth

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摘要
关键词   controllable growth   p-harmonic systems   full regularity

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Abstract In this paper, we shall establish that each weak solution of p-harmonic type systems with the gradients below the controllable growth belongs to, H\"older continuity spaces with any H\"older exponent $\alpha\in [0,1) $. Furthermore, we can obtain that the gradients of the corresponding weak solutions also belong to locally H\"older continuity spaces with some H\"older exponent.

Key words   controllable growth   p-harmonic systems   full regularity

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