

BMO Regularity for One-Dimensional Minimizers of some Lagrange Problems

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Abstract: We extend our results about a class of non-regular Lagrange problems of Calculus of Variations showing that the derivative of minimizers are in $\$BMO\$$. For this class we give also some results of optimality relative to the Tonelli set, of the type recently given by Ball-Mizel, by using results of Harmonic Analysis.

Keywords: Calculus of Variations, One-dimensional problems, Reverse Jensen Inequalities, Tonelli set, $\$BMO\$$, Orlicz Spaces

Classification (MSC2000): 49N60; 49K40, 46E30

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