Non-Coercive Variational Problems with Constraints on the Derivatives

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Abstract: We establish a necessary and sufficient condition for the existence of the minimum of the functional $\langle i_1, 0^1 \rangle$ f(t,v^prime(t))dt\$ in the class $\langle 0^p \rangle d^p \rangle \langle 0^p \rangle ([0,1]): v(0) = 0, v(1) = d, v^prime(t) \langle 0^p \rangle d^p \rangle$, in terms of a limitation of the slope \$d\$. Some applications to quasi-coercive and non-coercive integrands are also derived.



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