

AMS TEMPLATE MODIFIED

JOHN DOE

1. TEMPLATE HEADING

1.1. Template Subheading

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Definition 1.1 (Minimizer): $\varphi \in C^1(\Omega, \mathbb{R})$ is a minimizer of a functional \mathcal{F} if there exists some $\delta > 0$ for which $\forall \psi \in B_\delta(\varphi) : \mathcal{F}(\varphi) \leq \mathcal{F}(\psi)$ holds.

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Theorem 1.1 (Euler-Lagrange): Let F , \mathcal{F} and φ be a minimizer (Definition 1.1). If φ is of class C^2 , then φ satisfies the Euler-Lagrange equation:

$$F_u(x, \varphi(x), \nabla \varphi(x)) - D_\alpha F_{p_\alpha}(x, \varphi(x), \nabla \varphi(x)) = 0.$$

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Email address: john@doe.com