On the velocities of Lagrangian minimizers. (English, Russian summaries)


This paper studies absolutely minimizing trajectories for a time-dependent Lagrangian system. For Lagrangians $L(x, v, t)$ that are periodic in both $x$ and $t$, the velocities of absolute minimizers are uniformly bounded. However, for a more general dependence on $t$, the standard proof breaks down. This paper uses a clever iterative procedure to prove an upper bound for $\dot{x}$ which grows logarithmically in $T$. It is also shown that this bound is sharp.

**Diogo Luís Aguiar Gomes**

**References**

Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.

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