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Weak KAM solutions in a minimax framework

Abstract

I present the work of my student Porfirio Toledo about Weak KAM solutions for strongly, but controlled, non convex Lagrangians. More precisely we consider Lagrangians of the form $L(x, y, V) - G(x, y, W)$ being V, W the derivatives in the x, y variables. L and G are convex, so the total Lagrangian is convex on some variables and concave on the other set. We replace the minimizing techniques with a minimax framework.