

VANISHING ASYMPTOTIC MASLOV INDEX FOR CONFORMAL SYMPLECTIC FLOWS

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Abstract : Asymptotic Maslov index can be associated with symplectic flows, and vanishes where the dynamics is not too wild. After precising this statement in the setting of Aubry-Mather theory, I will present a joint work with A. Florio and M.-C. Arnaud considering asymptotic Maslov index for conformal symplectic flows. We prove that under a convexity assumption on the Hamiltonian, on every Lagrangian submanifold Hamiltonianly isotopic to the zero section, there exists a point with vanishing asymptotic Maslov index for the related conformally Hamiltonian flow.