

Multidimensional continued fractions and renormalization *

K. Khanin J. Lopes Dias J. Marklof

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Abstract

We use a new multidimensional continued fractions algorithm to construct renormalization operators acting on spaces of vector fields on the d -torus, Hamiltonian systems and skew-product flows. We then show several rigidity results concerning conjugacy to linear flows, existence of invariant tori and reducibility.

*oral communication.