

Reducibility and almost-reducibility in quasi-periodic dynamics: local and global aspects.

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I will discuss different notions of reducibility (reducibility i.e. linearization, almost reducibility, accumulation by reducible systems) for various quasi-periodic dynamical systems such as diffeomorphisms of the circle, quasi-periodic cocycles and pseudo-rotations of the disk. After a short introduction to KAM theory, that applies in local (perturbative) situations, I will describe the renormalization method that allows to tackle global (non perturbative) problems.