

Separating actions from angles

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One of the simplest problems of normalization concerns analytic local diffeomorphisms of the plane in the neighborhood of a weakly attracting elliptic fixed point at which the derivative is a non-periodic rotation. Defining “geometric normalization” as an analytic local change of coordinates that transforms the local diffeomorphism into one leaving invariant the foliation by circles centered at the fixed point, I shall describe works with David Sauzin, Shanzhong Sun, and Qiaoling Wei which address the existence of normalizations and geometric normalizations.

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