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Yet another partial result for the pullback conjecture

Opis: In this talk we will recall the pullback conjecture of Ebenfelt and Rothschild from 2007: given a finite holomorphic self-map germ F of the complex Euclidean space fixing the origin and a complex analytic germ $(W,0)$ whose full pullback $(V,0)$ by F is smooth, the germ $(W,0)$ must be smooth as well. After commenting on the developments made so far, we will discuss a sufficient condition for the pullback conjecture to hold true. This condition, the transversality of the differential of F with the smooth pullback V , required earlier an additional assumption of the germ $(V,0)$ being Lipschitz normally embedded. Our aim is to get rid of this assumption.