

Towards a Topological Classification of Parabolic Skew-Product Maps

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Abstract

We consider skew product maps of the form $F(z, w) = (h(z), f(z, w))$. We deal with the case of parabolic skew product maps, that is when $DF(0, 0) = \text{Id}$. Our goal is to describe the behavior of orbits around a whole neighborhood of the origin. We will present the relevant results on one dimension and explain the obstacles on higher dimensions.