

Bulging of wandering Fatou components for transcendental skew products

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The Fatou components of complex endomorphisms are subject of extensive study. Whereas the one-dimensional case admits a fairly complete classification, no such picture exists in higher dimensions. One approach towards better understanding the Fatou components of higher dimensional functions is to restrict oneself to a subclass of holomorphic functions, such as skew-products. While polynomial skew products have been studied to some degree, allowing the skew product to be transcendental entire introduces new behaviors. In particular, wandering domains can appear on the invariant fiber. In this talk, I will give a brief introduction to this setting and present some initial results.

Orateur: POTTHINK, Tom