

Non-density of stability for holomorphic mappings on \mathbb{P}^k

Romain Dujardin ¹

¹ Université Paris Est Marne La Vallée

Resumo/Abstract:

The stability/bifurcation theory of rational mappings in complex dimension 1 was designed by Ma-Sad-Sullivan and Lyubich in the early 1980s. A natural generalization to higher dimensions was recently put forward by Berteloot, Bianchi and Dupont. A salient feature of dimension 1 is that structural stability on J is dense in any holomorphic family of rational maps. In this talk I will report on work in progress showing that the corresponding result fails in higher dimension, and discuss possible mechanisms leading to robust bifurcations in this context.