

Rigidity of critical circle maps

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¹ IMPA

Resumo/Abstract:

I will discuss several rigidity results in dynamics, in particular that any two C^4 critical circle maps with the same irrational rotation number and the same criticality are C^1 conjugate. This is a joint work with Pablo Guarino and Marco Martens. In a previous article, joint with Pablo Guarino, we prove that any two C^3 critical circle maps with the same rotation number of bounded type and the same criticality are $C^{1+\alpha}$ conjugate for a universal $\alpha > 0$.