A Cantor dynamical system is slow if and only if it has only attracting finite orbits

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Abstract

Boroński, Kupka, Oprocha proved in 2019 that every *minimal* cantor dynamical system can be embedded with vanishing derivative in the real line, while it was conjectured that expansive minimal Cantor systems must lack this property. More recently with P.Oprocha we refined the techniques used in their proof and provided a complete characterization of the Cantor systems which can be embedded with vanishing derivative in the real line: they are the ones whose finite orbits are all attractors. In this talk I will give an outline of the proof of Boroński, Kupka, Oprocha, in order to introduce the tools involved in it. After this I will present the modifications that we introduced in this proof in order to have the complete characterization.