Groups of diffeomorphisms of a Cantor set

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Abstract

Let $K$ be a Cantor set contained in a line. We call group of diffeomorphisms of $K$ the group of homeomorphisms of $K$ which are locally restrictions of diffeomorphisms of the line. In this talk, we will discuss some properties of these groups and see consequences of our results for Higman-Thompson groups $V_n$. This is joint work with Dominique Malicet.