

# About a big mapping class group

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Abstract: The mapping class group of the complement of a Cantor set in the plane arises naturally in dynamics. More precisely, the study of this group is motivated by potential obstructions that it could give on group actions on the plane. To get informations about this "big mapping class group", we can look at its action on a Gromov-hyperbolic space: the ray graph. In this talk, I will give general motivations and explain why this ray graph has infinite diameter and is Gromov-hyperbolic.