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My research area is the descriptive set theory of Polish groups and their actions and, more generally, the use of Baire category methods and concepts in analysis. I am especially interested in the properties of Polish group appearing as automorphism groups of homogeneous structures, both in the sense of classical first-order logic (automorphism groups of Fraïssé limits) and in the sense of continuous logic; my research in the past few years has partly revolved around the fact that continuous logic provides a natural setting to study some properties of Polish groups. In the past I have done some work on the theory of the Urysohn space, a curious object that was constructed by Urysohn shortly before his death in 1924 and has been attracting some interest in the mathematical community during the past 10 years or so.

See my webpage <http://math.univ-lyon1.fr/~melleray/> for publications and preprints.