

A GLIMM-EFFROS DICHOTOMY FOR QUOTIENTS

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We generalize the dichotomy theorem characterizing smooth Borel equivalence relations to quotient spaces. The argument involves a purely combinatorial analysis of sets definable from pairwise intersecting families. We may apply this to clarify the extent to which one can recover the equivalence relation from its ideal of smooth sets, which in turn leads to further complexity results in the hierarchy of smooth ideals. This is joint work with John D. Clemens and Benjamin D. Miller.

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