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**Matthew D Foreman\*** (mforeman@math.uci.edu), Mathematics Dept., UC Irvine, Irvine, CA 92697. *Smooth measure preserving transformations on the torus are unclassifiable.*

The talk discusses joint work the B. Weiss showing that smooth measure preserving transformations of the torus are not classifiable up to isomorphism by measure preserving transformations. Possible extensions to the relation of conjugacy by homeomorphisms will be discussed. (Received August 12, 2013)