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Alexander S. Kechris* (kechris@caltech.edu), Department of Mathematics, 253-37, Caltech, Pasadena, CA 91125. *Ergodic theory and descriptive set theory*. Preliminary report.

We will survey recent developments concerning the structure of the group of measure preserving transformations of a standard probability space and the complexity of the classification problem of ergodic transformations up to conjugacy or unitary equivalence. (Received September 18, 2005)