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Su Gao*, Department of Mathematics, 1155 Union Circle #311430, University of North Texas,
Denton, TX 76203. *The complexity of isomorphism problems in symbolic dynamics.*

In this talk I will give a survey of results on classification problems in symbolic dynamics. Using descriptive set theory, we measure the exact complexity of the topological conjugacy for various kinds of Bernoulli subshifts. I will also explain the intrinsic connections between the topological conjugacy problem and the measure-theoretic isomorphism problem in ergodic theory. (Received September 18, 2013)