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Anti-classification results in dynamical systems

Classification theory plays an important role in dynamical systems. In recent years, the focus has shifted towards so-called anti-classification results. By applying techniques from descriptive set theory, we can prove that specific types of classifications are impossible. In this talk, I will discuss some recent anti-classification results regarding classifying topological and smooth dynamical systems by topological conjugacy and classifying measure-preserving transformation by measure isomorphism.