BURAK KAYA, Rutgers University
The complexity of topological conjugacy of pointed Cantor minimal systems

In this talk, we will analyze the Borel complexity of the topological conjugacy relation on pointed Cantor minimal systems and show that it is Borel bireducible with the Borel equivalence relation $\Delta_{\mathbb{R}}^+$, where $^+$ denotes the Friedman-Stanley jump. Moreover, $\Delta_{\mathbb{R}}^+$ turns out to be a lower bound for the Borel complexity of topological conjugacy of Cantor minimal systems. If time permits, we shall discuss some applications of our results to properly ordered Bratteli diagrams.