

Speaker: Reed Solomon

Title: Strong computable reducibility and versions of Ramsey's Theorem

Abstract: We review the notion of strong computable reducibility with examples from Ramsey theory. The main result is that for any $n > m$, Ramsey's theorem for singletons and n colors is not strong computably reducible to stable Ramsey's theorem for pairs and m colors. As a corollary, the cohesive principle is not strong computably reducible to stable Ramsey's theorem for pairs and any finite number of colors. This work is joint with Damir Dzhafarov, Ludovic Patey and Brown Westrick.