

Speaker: Matthew Harrison-Trainor

Title: Optimal Scott sentences for groups

Abstract: Every finitely generated structure has a Σ_3^0 Scott sentence. However many finitely generated structures have a simpler d - Σ_2^0 Scott sentence. In fact, until recently, every known finitely generated group had a d - Σ_2^0 Scott sentence. I will talk about joint work with Turbo Ho where we constructed a finitely generated group whose optimal Scott sentence is Σ_3^0 . Part of this work is a characterization of the finitely generated structures with d - Σ_2^0 Scott sentences.