

Speaker: Douglas Ulrich

Title: Borel complexity and Biembeddability Relations

Abstract: The following statement is independent of ZFC (assuming large cardinals): there is an absolutely Δ^1_2 reduction from graphs to colored trees that takes nonisomorphic graphs to nonbiembeddable colored trees. I discuss this and related results, including that it is consistent with ZFC that torsion-free abelian groups are maximal under absolute Δ^1_2 -reducibility. Many of these results are joint with Shelah.