Date: August 4, 2020

Speaker: Andy Zucker, UCSD

Title: Topological dynamics beyond Polish groups (joint work with Gianluca Basso)

Abstract: When G is a Polish group, one way of knowing that G has "nice" dynamics is to show that M(G), the universal minimal flow of G, is metrizable. However, works of Bartosova, Gheysens, and Krupinski-Pillay investigate groups beyond the Polish realm, such as Sym(κ), Homeo(ω_1), and automorphism groups of uncountable, ω-homogeneous structures. For example, Bartosova shows that the universal minimal flow of Sym(κ) is the space of linear orders on κ - not a metrizable space, but still "nice." In this talk, we seek to put these results into a general framework which encompasses all topological groups.