Topological full groups of etale groupoids Hiroki Matui

Abstract: One can construct etale groupoids G from various topological dynamics on Cantor sets X. The topological full group [[G]] of G is a subgroup of Homeo(X)consisting of all homeomorphisms whose graph is 'contained' in the groupoid Gas a compact open subset. In recent years, it has been found that the group [[G]]possesses several interesting properties. First, I will explain that when G arise from minimal \mathbb{Z} -actions, [[G]] provide us finitely generated, simple, amenable, infinite groups. Next, for G arising from one-sided SFT, I will show that [[G]] is of type F_{∞} and its commutator subgroup is simple. This is regarded as a generalization of Higman-Thompson groups.