

Title: Homeomorphisms of the circle, rotation numbers, and measures: definitions and results with general discussion.

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Abstract

We explore a structure theory for groups of homeomorphisms of the circle, including a well known result of Margulis in the flavor of the Tit's Alternative, relating the existence of G -invariant measures on the circle to the group structure of G . Along the way, we define rotation numbers, and mention some useful and well known classical results of Poincare, Fricke and Klein, Denjoy, and Solodov.