

SKEW-AMENABILITY OF TOPOLOGICAL GROUPS

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ABSTRACT. We study skew-amenable topological groups, i.e., those admitting a left-invariant mean on the space of bounded real-valued functions left-uniformly continuous in the sense of Bourbaki. We prove characterizations of skew-amenable topological groups of isometries and automorphisms, clarify the connection with extensive amenability of group actions, establish a Følner-type characterization, and discuss closure properties of the class of skew-amenable topological groups. Moreover, we isolate a dynamical sufficient condition for skew-amenable topological groups and provide several concrete variations of this criterion in the context of transformation groups. These results are then used to decide skew-amenable topological groups for a number of examples of topological groups built from or related to Thompson's group F and Monod's group of piecewise projective homeomorphisms of the real line.

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1. INTRODUCTION

A topological group G is called *amenable* if every continuous action of G on a non-void compact Hausdorff space admits an invariant regular Borel probability measure, or equivalently, if every continuous action of G by affine homeomorphisms on a non-void compact convex subset of a locally convex topological vector space has a fixed point. By a fundamental result of Rickert [Ric67, Theorem 4.2], a topological group is amenable if and only if there exists a left-invariant mean on the space of right-uniformly continuous bounded real-valued functions

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