## ABOUT COMPACT GROUPS LARGELY SATISFYING A WORD EQUATION

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ABSTRACT. Let d be a positive integer and  $w: G^d \to G$  be a word map on a compact (Hausdorff) group G. We study the following conjecture proposed by Lévai and Pyber: Does the set of answers of the word equation w=1 have nonempty interior, provided that this set has a positive Haar measure.