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ERRATUM TO "LOCALLY COMPACT ABELIAN GROUPS AND THE VARIETY OF TOPOLOGICAL GROUPS GENERATED BY THE REALS"

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Professor U.N. Muhin has pointed out that the proof of Lemma 1 is wrong. "That is, any finitely generated subgroup of $gp\{X\}$ is generated by $a + b$ elements. Thus $gp\{X\}$ is finitely generated" is an incorrect deduction! As the lemma is a special case of Theorem 2.6 of [8], it is, of course, correct. It is possible to replace the proof we gave with a similar, but correct, one. However, a sneaky way to see that any closed subgroup of a compactly generated LCA-group is compactly generated is by observing that an LCA-group is compactly generated if and only if its dual group is a Lie group, and using the fact that any quotient of a Lie group is a Lie group.

REFERENCE

1. Sidney A. Morris, *Locally compact abelian groups and the variety of topological groups generated by the reals*, Proc. Amer. Math. Soc 34 (1973), 290–292.

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