

Choi, Yemon; Ghandehari, Mahya

Weak amenability for Fourier algebras of 1-connected nilpotent Lie groups. (English)

Zbl 1328.43005

J. Funct. Anal. 268, No. 8, 2440-2463 (2015).

B. E. Forrest and *V. Runde* [*Math. Z.* 250, No. 4, 731–744 (2005; Zbl 1080.22002)] conjectured that the Fourier algebras of non-abelian connected Lie groups are not weakly amenable. This was previously known to be true for non-abelian compact groups, the real $ax + b$ groups and hence, the semisimple Lie groups. In this paper, the authors confirm this conjecture for 1-connected non-abelian nilpotent Lie groups.

Reviewer: [Tianxuan Miao \(Thunder Bay\)](#)

MSC:

43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.

46J10 Banach algebras of continuous functions, function algebras

47B47 Commutators, derivations, elementary operators, etc.

Cited in **3** Documents

Keywords:

dual convolution; Fourier algebra; Heisenberg group; weak amenability

Full Text: [DOI](#) [arXiv](#)