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Nonrectifiable Delone sets in amenable groups

In 1998 Burago-Kleiner and McMullen constructed the first examples of coarsely dense and uniformly discrete subsets of $\mathbb{R}^n$ that are not biLipschitz equivalent to the standard lattice $\mathbb{Z}^n$ for $n \geq 2$. We will show how to find such sets inside certain other solvable Lie groups. The techniques involve combining ideas from Burago-Kleiner with quasi-isometric rigidity results from geometric group theory.