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Tullia Dymarz* (tullia.dymarz@yale.edu). *Bilipschitz equivalence is not equivalent to quasi-isometric equivalence for finitely generated groups.*

We show that certain lamplighter groups that are quasi-isometric (even commensurable) are nevertheless not bilipschitz equivalent. The proof involves structure of quasi-isometries from rigidity theorems, analysis of bilipschitz maps of the n -adics and uniformly finite homology. (Received September 02, 2009)