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Tullia Dymarz and **Irine Peng*** (ipeng@indiana.edu), 831 E. 3rd Street, Bloomington, IN 47405. *Bilipschitz maps of boundaries of certain negatively curved homogeneous spaces.*

Let ∂M be the boundary minus a point of a negatively curved space of the form $\mathbb{R} \times_M \mathbb{R}^n$ with the eigenvalues of M outside of the unit circle. In joint work with Dymarz, we show that a compactly acting uniform subgroup of quasi-similarities of ∂M can be conjugated into the subgroup of almost similarities. This extends earlier work of Dymarz and implies quasi-isometric rigidities of certain solvable Lie groups. (Received January 18, 2011)