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**Sam V Eastridge\*** (seastri@vt.edu), 208 Miller St., Christiansburg, VA 24073, and **Peter Linnell**. *First  $l^p$  Cohomology of Some Infinite Groups*. Preliminary report.

In this talk I will consider some common results about  $l^p$  cohomology for finitely generated groups, and see which of these results also apply for uncountable groups  $G$ . Many of the results do not hold even for the countably generated case. In particular, I intend to give some explanation as to the reason why even though the space  $H^1(G, l^p(G))$  is not even Hausdorff for  $G$  an infinite, amenable, finitely generated group, it vanishes for some (and perhaps all) uncountable amenable groups. I also intend to discuss the injectivity of some maps between cohomology groups, as well as look at some results on first cohomology groups with coefficients in  $c_0(G)$  and  $l^\infty(G)$ . (Received September 13, 2016)