Craig R Guilbault and Molly A Moran* (mmoran@coloradocollege.edu). *Quasi Z-Structures. Preliminary report.

Bestvina defined a $Z$-structure on a group $G$ to generalize the theory of boundaries of CAT(0) and hyperbolic groups. An interesting question to ask in this setting is: given two groups that are quasi-isometric where one group is known to admit a $Z$-structure, must the other group also admit a $Z$-structure? From previous work, we have a partial answer to this question, but there is one roadblock in giving a complete answer. In this talk, we will discuss this roadblock and provide a modified definition of $Z$-structures where we hope to give a more complete answer to this question. (Received September 11, 2019)