1154-54-838 **Craig R Guilbault** and **Molly A Moran*** (mmoran@coloradocollege.edu). *Quasi $\mathcal{Z}$-Structures.* Preliminary report.

Bestvina defined a $\mathcal{Z}$-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 $\mathcal{Z}$-structure, must the other group also admit a $\mathcal{Z}$-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 $\mathcal{Z}$-structures where we hope to give a more complete answer to this question. (Received September 11, 2019)