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Molly A. Moran* (mamoran@uwm.edu). *Generalizing Group Boundaries.*

The rich study of boundaries of CAT(0) and hyperbolic groups led M. Bestvina to formalize the concept of a group boundary by defining a Z -structure on a group. In his original definition, a Z -structure on a group G is a pair of spaces (\hat{X}, Z) where \hat{X} is a compact ER, Z is a Z -set in \hat{X} , G acts by covering transformations on $X = \hat{X} - Z$, and the collection of G -translates of a compact set in X satisfies a nullity condition in \hat{X} . There are several ways we can modify this definition in hopes of extending the theory of group boundaries to a more extensive collection of groups. We will discuss some of these modifications, their implications, and what results, obtained from the original definition, may be extended to the modified cases. (Received September 15, 2013)