

1125-AE-1165 **Nic Koban*** (`nicholas.koban@maine.edu`) and **John Meier**. *The Ends of a Group*.

In a typical pre-calculus course where real-valued functions are studied, a natural question to ask about these functions is, “What is happening with the function at infinity?” This leads to studying limits of the function as the independent variable “approaches infinity”. A similar question can be asked about a finitely generated group. The Cayley graph gives us a picture of the group, and we can wonder, “What is happening with this group at infinity?” As we approach infinity, are we approaching a space with a certain structure? In this talk, we examine this idea. (Received September 15, 2016)