Tom Klein* (klein@math.binghamton.edu), Department of Mathematical Sciences, Binghamton University, Binghamton, NY 13902. *Strong monotonicity for filtered ends of pairs of groups.

Let $G$ be a finitely generated group and let $H$ be a subgroup of $G$. The number of Kropholler-Roller, or filtered, ends of the pair $(G, H)$, denoted $\tilde{e}(G, H)$, is an alternative to the number of Houghton-Scott ends of the pair, $e(G, H)$. We discuss a topological definition for $\tilde{e}(G, H)$ and indicate a proof of the following strong monotonicity property of $\tilde{e}$: if $K < H < G$ are subgroups each having infinite index in the next, then $\tilde{e}(G, K) > 1$ implies $\tilde{e}(G, H) = \infty$. We also indicate how this property, combined with results of Farley and Napier/Ramachandran, has been applied to show Thompson’s groups $T$ and $V$ are not Kähler groups. (Received September 25, 2006)