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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)