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**Adam M Lowrance\*** (adlowrance@vassar.edu). *Measuring a knot's distance from alternating*. Preliminary report.

A knot invariant  $d(K)$  measures a knot's distance from alternating if  $d(K)$  is a non-negative integer such that  $d(K) = 0$  if and only if  $K$  is alternating and such that  $d(K_1 \# K_2) \leq d(K_1) + d(K_2)$ . We compare and contrast several such distance invariants, including dealternating number, alternation number, alternating genus, Turaev genus, and warping span. (Received September 15, 2013)