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Robert Todd* (rtodd@unomaha.edu). *Computing 4-move invariants*. Preliminary report.

Nakanishi conjectured that every knot can be reduced to the trivial knot via 4-moves. Here we investigate a 4-move invariant defined by Dabkowski and Sahi. We use extensive computer calculations show that this invariant is trivial for most (and possible all) alternating knots with 18 crossings or less. (Received January 24, 2012)