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Matt Clay, Max Forester and Joel Louwsma* (jlouwsma@niagara.edu), Department of Mathematics, Niagara University, PO Box 2044, Niagara University, NY 14109. *Quasimorphisms on groups that act on trees.*

We construct efficient quasimorphisms on groups that act on trees and show that their defect is at most 6. Calculations in the Baumslag–Solitar group $BS(2, 3)$ show that this is the smallest possible defect that can be achieved in this generality. A consequence of our result is that every suitable element of a group that acts on a tree must have stable commutator length at least $1/12$. In Baumslag–Solitar groups, we show that no element can have stable commutator length between 0 and $1/12$. (Received July 22, 2017)