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Symmetric Generating Sets for D_n and Word Length Perturbations. Preliminary report.

The standard symmetric generating set of cardinality 2 for D_n is well-understood. We analyze symmetric generating sets for D_n of cardinality 3 and discuss the so-called “butterfly effect” on minimal word lengths using two measures of sensitivity that are of current interest in the computational biology literature. (Received September 19, 2015)