1. Monochromatic arrows die

2. Trees w/ a leaf of the same color as the root die.

3. Trees w/ two leaves of the same color die.

4. Wheels die.

$\Rightarrow$ In principle, homotopy invariants are easy to study.

**Question.** Do $w$-tangles homotopy-inject into $w$-tangles? i.e., is every homotopy $w$-invariant of $w$-tangles the pullback of a homotopy invariant of $w$-tangles?