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Berit Nilsen Givens* (bngivens@csupomona.edu), 3801 W Temple Ave, Cal Poly Pomona, Pomona, CA 91768, and **Rebecca Starr**. *On properties preserved by interassociation*. Preliminary report.

Two semigroups (S, \cdot) and $(S, *)$ with the same underlying set are said to interassociate if $a \cdot (b * c) = (a \cdot b) * c$ and $a * (b \cdot c) = (a * b) \cdot c$. Here we consider which properties of semigroups are preserved by interassociation, in the sense that whenever (S, \cdot) has the property, then $(S, *)$ must have the property as well. In particular, we give counterexamples to show that being commutative or being periodic are not preserved by interassociation, along with various conditions under which the properties are preserved. (Received September 25, 2012)