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Nathan Corwin, Gili Golan, Susan Hermiller, Ashley Johnson* (ajohnson18@una.edu)
and **Zoran Sunic**. *An Algorithmic Property of Thompson's Group F* .

The algorithmic property autostackable was introduced in 2014 by Brittenham, Hermiller and Holt as a way to solve the word problem, find normal forms and build Van Kampen diagrams. The class of autostackable groups is known to include, to list a few, all groups with finite complete rewriting systems, all groups with an asynchronously automatic structure with a prefix-closed normal form set, a non- FP_3 group, and the fundamental group of every closed 3-manifold. Thompson's Group F , introduced in 1965 by Richard Thompson, is the set of orientation-preserving, piecewise linear homeomorphisms of the closed unit interval with slopes of the form 2^n for $n \in \mathbb{Z}$ and finitely many break points at dyadic rational numbers. In this talk, we will discuss the autostackability of Thompson's Group F . (Received September 26, 2017)