

1086-20-2583

Nathan A Corwin* (s-ncorwin1@math.unl.edu), Department of Mathematics, 203 Avery Hall, Lincoln, NE 68588. *A non-embedding result for Thompson's Group V*. Preliminary report.

Thompson's group V was first defined in 1965. It can be interpreted as a particular subgroup of the automorphism group of the Cantor set. We use some dynamical properties of the action of an element of V on the Cantor Set to show that $\mathbb{Z} \wr \mathbb{Z}^2$ does not embed into Thompson's group V . This result adds to the limited number of structure theorems for V . Part of the interest in a dynamical approach stems from the historical difficulty of purely algebraic techniques to obtain structure results about V . (Received September 25, 2012)