

Title: On Finite Bases for Principal Factors in Full Transformation Semigroups

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Abstract: The semigroup  $T_k(X)$  of rank  $\leq k$  transformations of a set  $X$  has no finite basis of identities if and only if  $k$  is a natural number and either  $k=2$  and  $|X| \in \{3,4\}$  or  $k \geq 3$ .