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Title: Permutation Complexity of Words

Abstract: An infinite permutation π is a linear ordering of the natural numbers, introduced by D.G. Fon-Der-Flaass and A.E. Frid in 2007. An investigation of combinatorial complexity of the infinite permutation associated with the well-known and well studied Thue-Morse word is undertaken. A formula for the complexity is given which is found through patterns in subpermutations and the action of the Thue-Morse morphism on the subpermutations.