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Title:	Palindromic automorphisms of free groups
Authors:	Gongopadhyay, Krishnendu (/jspui/browse?type=author&value=Gongopadhyay%2C+Krishnendu) Singh, Mahender (/jspui/browse?type=author&value=Singh%2C+Mahender)
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Abstract:	Let F_n be the free group of rank n with free basis $X=\{x_1, \dots, x_n\}$. A palindrome is a word in $X^{\pm 1}$ that reads the same backwards as forwards. The palindromic automorphism group ΠA_n of F_n consists of those automorphisms that map each x_i to a palindrome. In this paper, we investigate linear representations of ΠA_n , and prove that ΠA_2 is linear. We obtain conjugacy classes of involutions in ΠA_2 , and investigate residual nilpotency of ΠA_n and some of its subgroups. Let $I A_n$ be the group of those automorphisms of F_n that act trivially on the abelianisation, $P I_n$ be the palindromic Torelli group of F_n , and let $E \Pi A_n$ be the elementary palindromic automorphism group of F_n . We prove that $P I_n = I A_n \cap E \Pi A_n$. This result strengthens a recent result of Fullarton
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