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Description:	the lower bound of the palindromic width of Nn,r. We also improve the bound of the palindromic width of a free metabelian group. We prove that the palindromic width of a free metabelian group of rank n is at most 4n-1. Only IISERM authors are available in the record.
Abstract:	In [Bardakov and Gongopadhyay, Palindromic width of free nilpotent groups, J. Algebra 402 (2014) 379-391] the authors provided a bound for the palindromic widths of free abelian-by-nilpotent group ANn of rank n and free nilpotent group Nn,r of rank n and step r. In the present paper, we study palindromic widths of groups &widetilde ANnand &widetilde Nn, r. We denote by &widetilde Gn = $Gn/\langle \langle x12,xn2 \rangle \rangle$ the quotient of the group $Gn = (x1,,xn)$, which is free in some variety by the normal subgroup generated by $x12,xn2$. We prove that the palindromic width of the quotient &widetilde ANn is finite and bounded by 3n. We also prove that the palindromic width of the quotient &widetildeNn,2 is precisely $2(n-1)$. As a corollary to this result, we improve
Citation:	International Journal of Algebra and Computation,24(5),pp.553-567.
Publisher:	World Scientific
Issue Date:	2014
Keywords:	Free nilpotent groups Palindromic width
Authors:	Gongopadhyay, Krishnendu (/jspui/browse?type=author&value=Gongopadhyay%2C+Krishnendu)
Title:	On palindromic width of certain extensions and quotients of free nilpotent groups

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